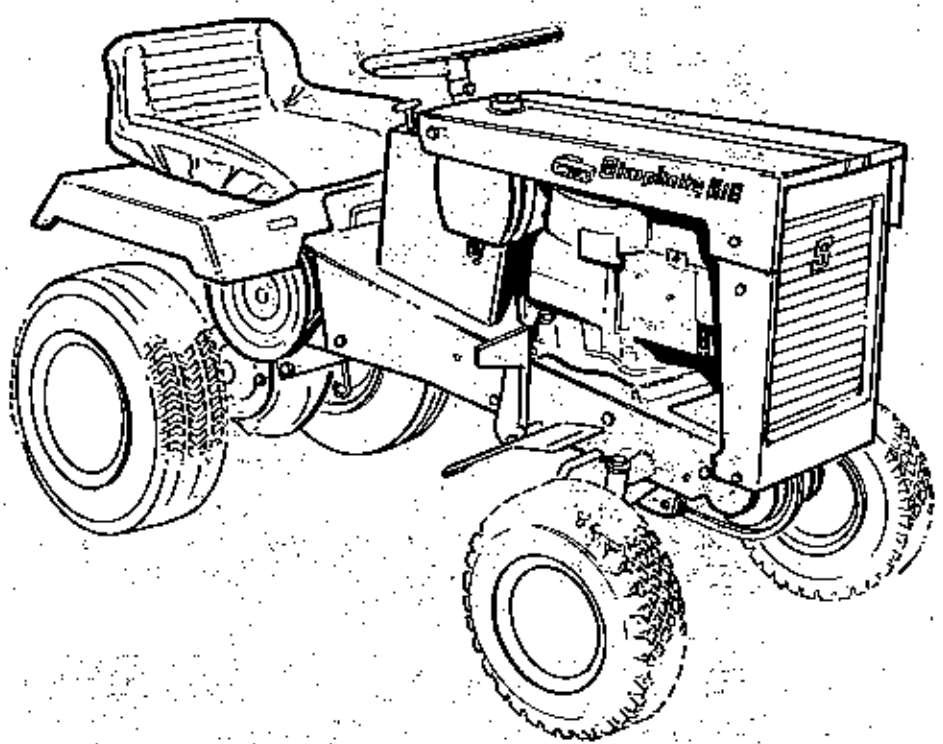
Simplicity®

# PARTS MANUAL

# YEOMAN TRACTORS

## (Includes 1968 - 1973)



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PRINTED IN U.S.A.
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**Product Identification:**

When ordering parts, keep your products serial number and manufacturer's number in mind. Variations may occur in a part between early and later model products, causing the product serial number to be listed in the parts description whenever these variations occur.

Record your I.D. numbers here for quick, future reference.

Product Mfg. No. _____ S/N _____ Mower Mfg. No. _____ S/N _____

**Attention:**

Standard torques appear in a chart at the end of the manual, while important individual torques are given on specific parts drawings.

CRITICAL and MAJOR notations point out important facts or instructions which relate to personal safety and proper machine operation. Any CRITICAL notation C which may appear in this book, pinpoints characteristics which, if not properly followed, can create a safety hazard. Any MAJOR notation M which may appear in this book, marks characteristics which, if not properly followed, may result in operating failure, shortened product life, or greatly reduced quality of the unit.

For your convenience, assembly notes are included in parts drawings to assist in repair and assembly of unit.

**NOTE: Specifications may change without notice.**

## *SIMPLICITY* PRODUCTS FOR THE PROPER CARE OF EQUIPMENT

**These genuine *Simplicity* products will help the owner extend the life of his equipment.**

**OILS - SPECIFICALLY BLENDED OF HIGH QUALITY BASE OILS & ADDITIVES.**

**Special Worm Gear (Roticul) Oil** for use in all tillers and snowthrowers with worm gear auger drive. Required for protection of brass gears and mating parts. **Case of 12 Quarts, Part #1685100, Individual Quarts 118065.**

**Multi-Purpose Hydraulic/Transmission Oil** for use in most hydraulic applications, and hydrostatic and gear transmissions. Specific *Simplicity* applications: All hydrostatic transmissions, all bevel gear cases, all Broadmoor, Landlord, Sovereign, 4000, 6000, 7000 transmissions (except Peerless Gear Transmissions). (Not used in SunStar tractor transmission.) **Case of 12 Quarts, Part #1685516, 2½ Gallon Container, Part #1685539.**

**2-Cycle Engine Oil,** a premium lubricant for all 2-cycle air-cooled engines. **Case of 12 Part #1685517.**

**SAE 5W 30 SF/CD Cold Weather Engine Oil** for use in all four cycle and diesel engines at 30° temp. and under. **Case of 12 Quarts, Part # 1685576.**

**SAE 15W40 SF/CD Engine Oil** for gas and diesel engines, warm weather; see engine manufacturer recommendations. **Case of 12 Quarts, Part #1685554.**

**Grease Gun Kit** has 12" flexible hose to get into tight spots with ease. Kit contains: gun and 1-8 oz. tube of grease, **Part #1685510.** For replacement tube, order **Part # 103077.**

**Pneumatic Tire Seal,** seals all leaks including bead leaks and punctures up to 3/16 inch diameters. Prevents flats for tread life of tire. Available in following amounts.

| | |
|---|---|
| **Case of 12 - 11 Oz. Tubes** | **1685537** |
| **Case of 24 - 11 Oz. Tubes** | **1685525** |
| **5 Gallon Pail** | **1685527** |

**Touch-Up Paint** keeps equipment in showroom condition.

| Spray Cans | Quarts | Daubbers 12/Ctn. |
|---|---|---|
| *Simplicity Orange - 103262 (12 cans/1685179) | 1685037 | 1685520 - Mixed (6 Simp. Orange, 6 White) |
| **Classic Orange - 1685558 (12 cans/1685559) | 1685560 | 1685562 - Mixed (6 Classic Orange, 6-White) |
| White 103049 (12 cans/1685178) | 1685032 | 1685562 - Mixed (6-Classic Orange, 6-White) 1685520 - Mixed (6-Simp. Orange, 6-White) |
| Black - 1685551 (12 Cans/1685552) | N.A. | N.A. |

***For 1977 thru early 1986 products.**
****For products produced after 12/1/85.**

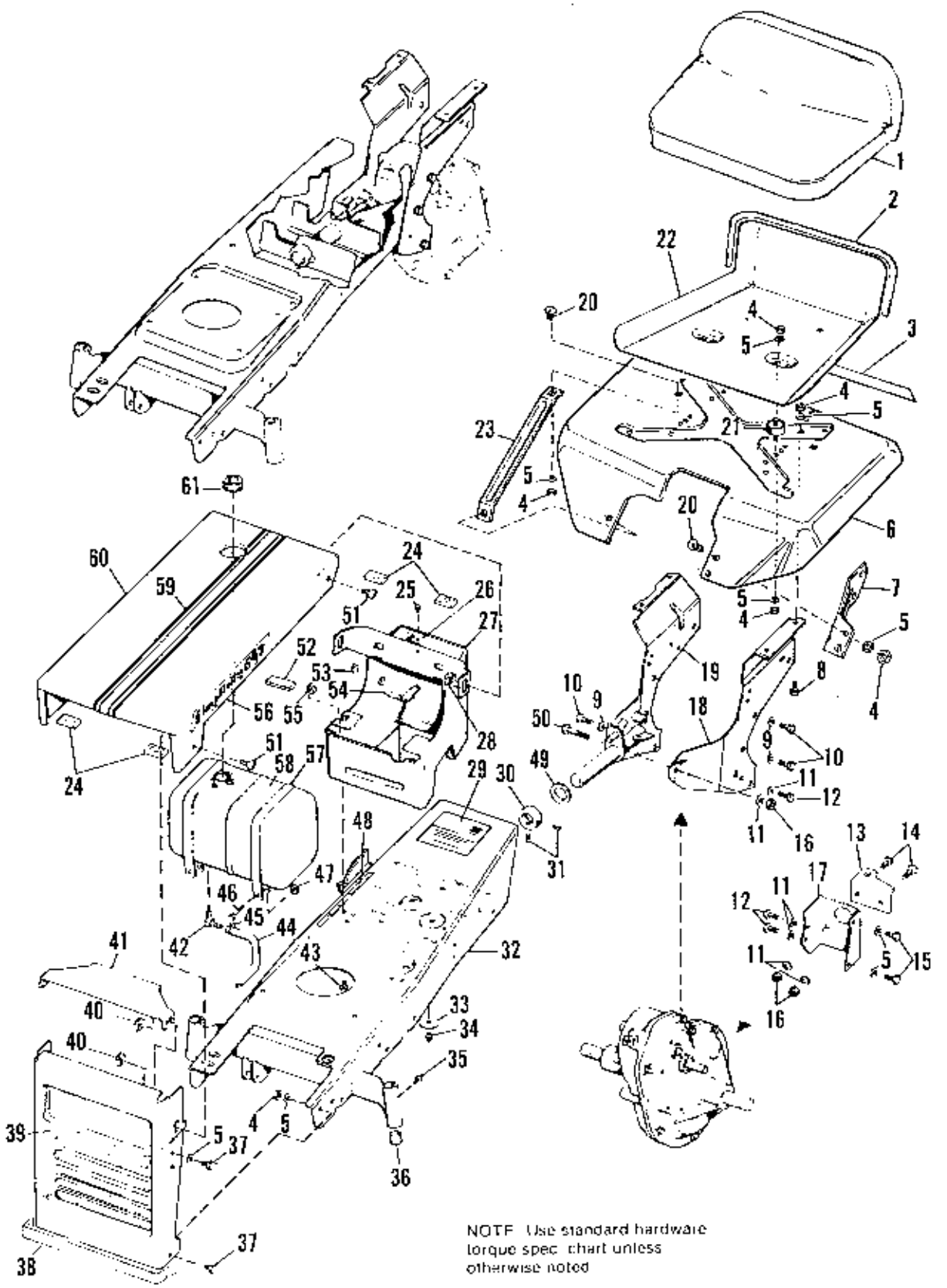
***Simplicity* Designer Seat Covers** are double stitched, easy care vinyl. Keeps new seats new, makes worn seats look new.

- **Small Cover for 4000, 5000, & 6100 Tractors** — **1685540**
- **Large Cover for 6200, 7000 & 9000 Tractors** — **1685541**
- **SunStar Seat Cover** — **1685577**

**Extend Equipment Life - Use Only Genuine *Simplicity* Parts**

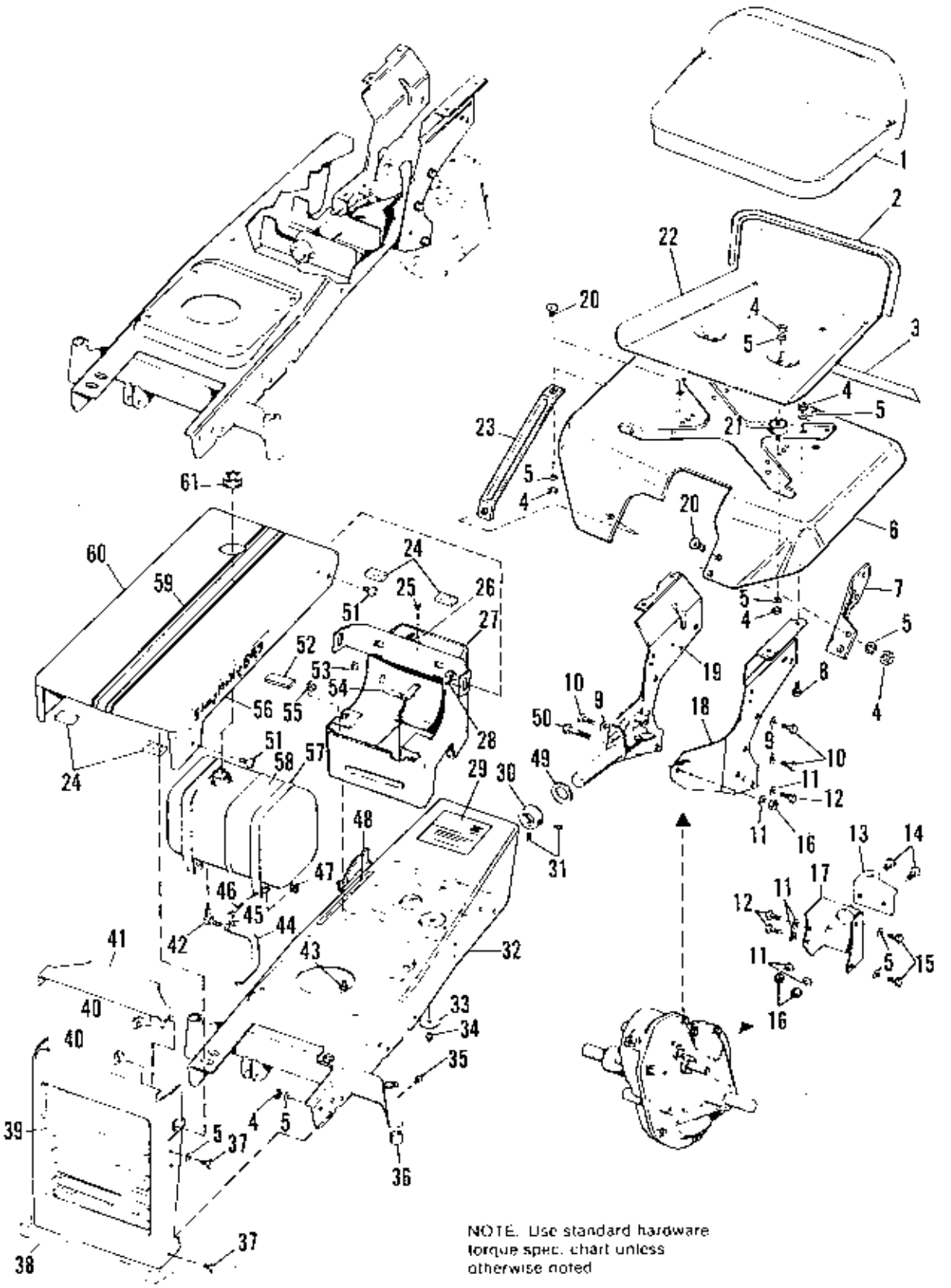
# Table of Contents


| Combination Mfg. No. | Description | Frame, Hood, Dash & Seat Group | Engine, Pulley, Brake & Clutch Group | Steering & Front Wheels Group | Transmission Group | Power Take Off Group | Lift Lever Group | Interlock Group | Electrical Group | Arbor & Housing Group | Hitch & Rollers Group |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 990905 | 648 Yeoman Tractor w/32" Rotary Mower<br>990899 648 Yeoman Tractor, Electric<br>990883 32" Rotary Mower | 2 | 12 | 14 | 16 | 26 | 34 | | 40 | 42 | 44 |
| 990779 | 637 Yeoman Tractor w/32" Rotary Mower<br>990764 637 Yeoman Tractor, Electric<br>990417 32" Rotary Mower | 2 | 12 | 14 | 16 | 28 | 34 | 34 | 38 | 42 | 44 |
| 990778 | 637 Yeoman Tractor w/32" Rotary Mower<br>990763 637 Yeoman Tractor, Manual<br>990417 32" Rotary Mower | 2 | 12 | 14 | 16 | 28 | 34 | 34 | | 42 | 44 |
| 990646 | 637 Yeoman Tractor, Man.<br>990417 32" Rotary Mower | 2 | 8 | 14 | 16 | 28 | 32 | | | 42 | 44 |
| 990645 | 637 Yeoman Tractor, Elec.<br>990417 32" Rotary Mower | 2 | 8 | 14 | 16 | 28 | 32 | | 36 | 42 | 44 |
| 990598 | 627 Yeoman Tractor w/32" Rotary Mower<br>990579 627 Yeoman Tractor, Electric<br>990417 32" Rotary Mower | 2 | 8 | 14 | 20 | 28 | 32 | | 36 | 42 | 44 |
| 990597 | 627 Yeoman Tractor w/32" Rotary Mower<br>990578 627 Yeoman Tractor, Manual<br>990417 32" Rotary Mower | 2 | 8 | 14 | 20 | 28 | 32 | | | 42 | 44 |
| 990542 | 627 Yeoman Tractor, Electric<br>990417 32" Rotary Mower | 6 | 8 | 14 | 20 | 28 | 32 | | 36 | 42 | 44 |
| 990486 | 626 Yeoman Tractor<br>990417 32" Rotary Mower | 6 | 8 | 14 | 20 | 28 | 32 | | 36 | 42 | 44 |
| 990415 | 616 Yeoman Tractor<br>990417 32" Rotary Mower | 6 | 8 | 14 | 24 | 30 | 32 | | | 42 | 44 |


NOTE Use standard hardware
torque spec chart unless
otherwise noted

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|
| 1 | 162094 | 1 | PAD, Seat |
| 2 | 159177 | 1 | TAPE, Seat Pan, 2 Foot |
| 3 | 171392 | 1 | EMBLEM, Rear |
| | 170263 | 1 | EMBLEM, Rear (990597 & 990598 Only) |
| 4 | 917372 | 18 | NUT, Hex, Full, 5/16-18 (Qty. 14 on 990597, 990598 990645 & 990646 Only) |
| 5 | 917356 | 22 | LOCKWASHER, 5/16 (Qty. 18 on 990597, 990598 990656 & 990646 Only) |
| 6 | 174691 | 1 | SUPPORT, Seat |
| 7 | 174480 | 1 | BRACKET (990778, 990779 & 990905 Only) |
| 8 | 921332 | 4 | CAPSCREW, Hex Hd., 5/16-18 x 3/4 |
| 9 | 918199 | 2 | LOCKWASHER, 7/16 |
| 10 | 918212 | 2 | CAPSCREW, Hex Hd., 7/16-14 x 1 |
| 11 | 916965 | 6 | LOCKWASHER, 3/8 |
| 12 | 921965 | 3 | CAPSCREW, Hex Hd., 3/8-16 x 3/4 |
| 13 | 156192 | 1 | CLIP, Draw Bar |
| 14 | 925204 | 2 | CAPSCREW, Hex Hd., 3/8-16 x 1 |
| 15 | 921977 | 2 | CAPSCREW, Hex Hd., 5/16-18 x 1-1/4 |
| 16 | 916950 | 3 | NUT, Hex, Full, 3/8-16 |
| 17 | 156191 | 1 | BRACKET, Draw Bar |
| 18 | 174642 | 1 | PLATE, Side, L.H. (990778, 990779 & 990905 Only) |
| | 165040 | 1 | PLATE, Side, L.H. |
| 19 | 1655080 | 1 | PLATE ASSY., Side, R.H. (990778, 990779 & 990905 Only) |
| | 1655451 | 1 | PLATE ASSY., Side, R.H. |
| 20 | 923700 | 4 | BOLT, Carriage, 5/16-18 x 1/2 |
| 21 | 159085 | 4 | CONNECTOR, Cushion |
| 22 | 165066 | 1 | PANEL, Seat |
| 23 | 165070 | 1 | BRACE, Seat Support |
| 24 | 106582 | 4 | GASKET, Felt |
| 25 | 923188 | 2 | SCREW, Self Tapping, Hex Hd., 1/4-20 x 1/2 |
| 26 | 174644 | 1 | DECAL, Throttle (990778, 990779 & 990905 Only) |
| | 162071 | 1 | DECAL, Throttle |
| 27 | 174552 | 1 | DASH ASSY. (990778, 990779 & 990905 Only) |
| | 170085 | 1 | DASH ASSY. |
| 28 | 930659 | 2 | NUT, Retainer |
| 29 | 176820 | 1 | DECAL, Safety (990905 Only) |
| | 174784 | 1 | DECAL, Safety (990778 & 990779 Only) |
| | 162109 | 1 | DECAL, Safety |
| 30 | 154065 | 1 | COLLAR, Set |
| 31 | 928721 | 2 | SETSCREW, 5/16-18 x 1/2 |
| 32 | 176446 | 1 | FRAME ASSY. (990905 Only) |
| | 170084 | 1 | FRAME ASSY. |

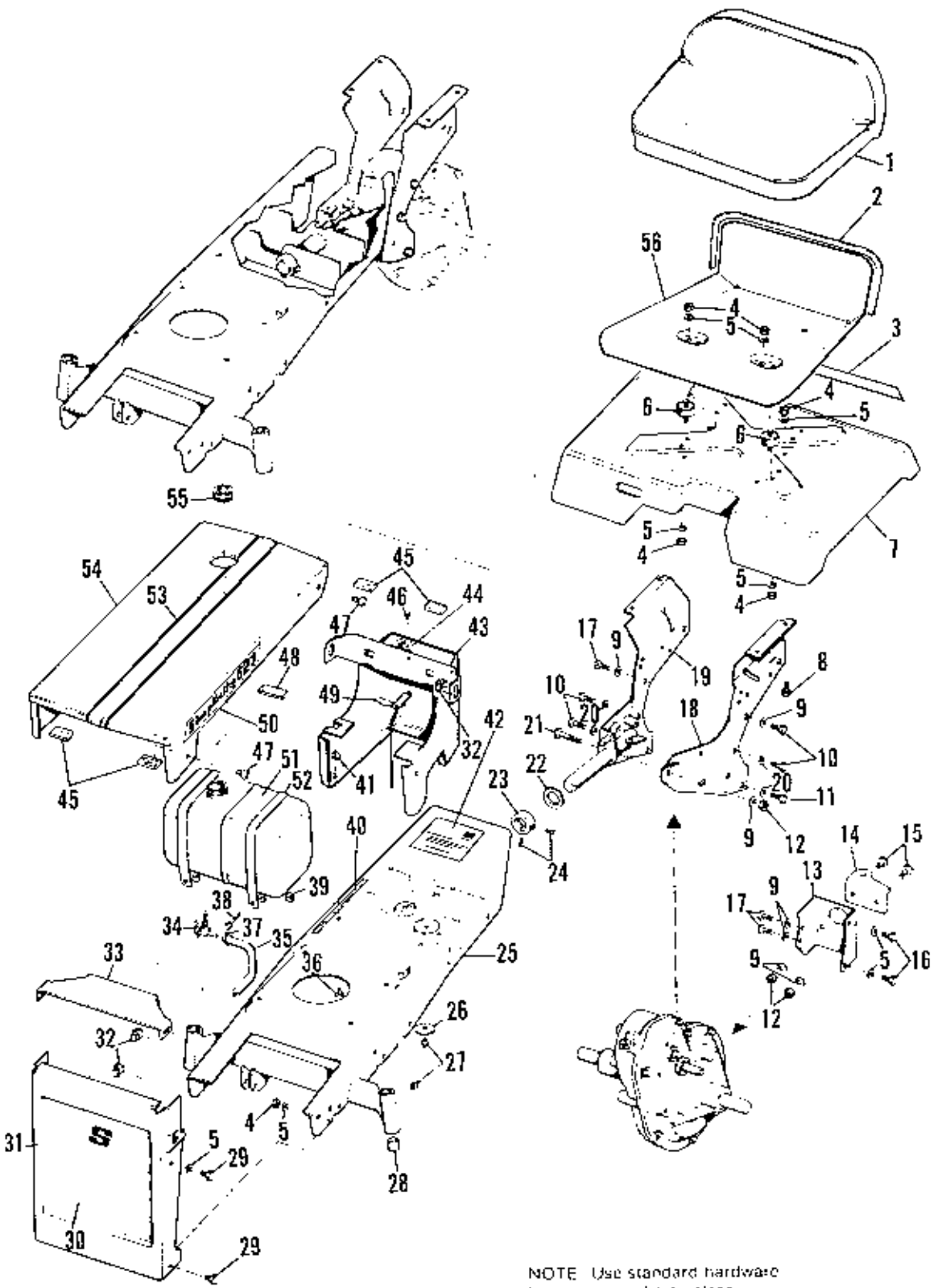
**NOTE: Parts Reference No. 33-61 cont'd. on the following page.**




NOTE. Use standard hardware torque spec. chart unless otherwise noted

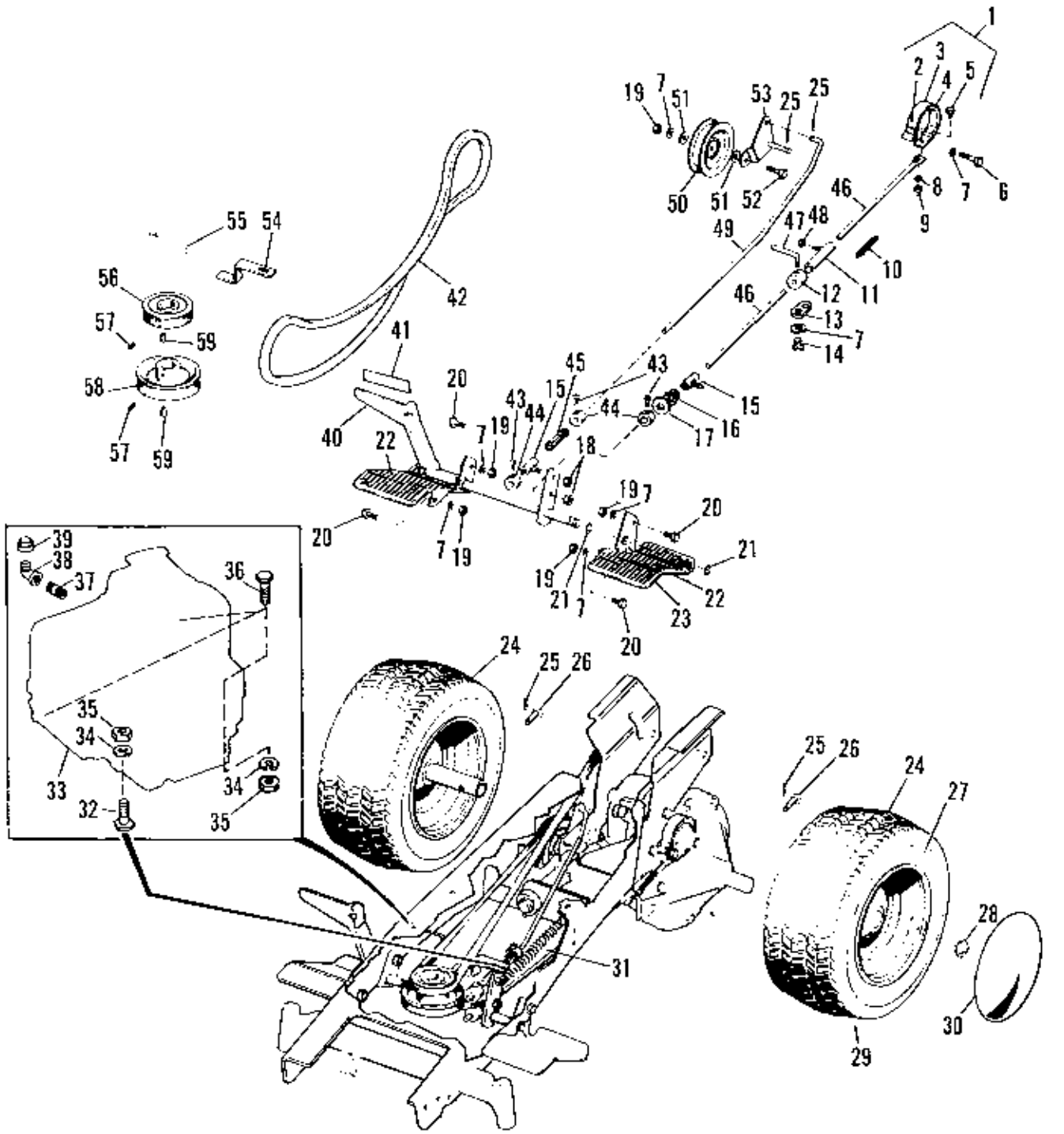
| Part No. | Ref. No. | Qty. | Description |
|---|---|---|---|
| 33 | 923212 | 1 | WASHER, Plain, #10 |
| 34 | 921133 | 1 | FITTING, Grease |
| 35 | 912808 | 2 | FITTING, Grease |
| 36 | 154289 | 4 | BEARING, Needle |
| 37 | 925205 | 4 | CAPSCREW, Hex Hd., 5/16-18 x 5/8 |
| 38 | 171438 | 1 | DECAL, Grille (990645, 990646, 990778, 990779 & 990905 Only) |
| | 170257 | 1 | GRILLE (990597 & 990598 Only) |
| 39 | 170904 | 1 | GRILLE |
| | 170088 | 1 | GRILLE (990597 & 990598 Only) |
| 40 | 930659 | 4 | NUT, Retainer |
| 41 | 162037 | 1 | SUPPORT, Grille |
| 42 | 174640 | 1 | ELBOW, 90° (990778, 990779 & 990905 Only) |
| | 162044 | 1 | VALVE, Shutoff |
| 43 | 919339 | 4 | SCREW, Self Tapping, Hex Hd., #14 x 5/8 |
| 44 | 162059 | 1 | HOSE, Fuel |
| 45 | 154372 | 2 | CLAMP, Hose |
| 46 | 917492 | 2 | SCREW, Machine, Fillister Hd., 1/4-20 x 1-3/4 |
| 47 | 930623 | 2 | NUT, Square, 1/4-20 |
| 48 | 162072 | 1 | DECAL, Clutch |
| 49 | 105050 | 1 | WASHER |
| 50 | 921971 | 1 | CAPSCREW, Hex Hd., 3/8-16 x 1-3/4 |
| 51 | 928693 | 4 | SCREW, Thumb, 5/16-18 x 3/4 |
| 52 | 158450 | 1 | GASKET, Felt |
| 53 | 164191 | 1 | BUTTON, Plug (990778, 990779 & 990905 Only) |
| 54 | 171554 | 1 | CONTROL, Choke |
| | 162061 | 1 | CONTROL, Choke (990597 & 990598 Only) |
| 55 | 928703 | 14 | NUT, Speed |
| 56 | 176508 | 2 | DECAL, Number (990905 Only) |
| | 171756 | 2 | DECAL, Number |
| | 162107 | 2 | DECAL, Number (990597 & 990598 Only) |
| 57 | 162060 | 2 | STRAP, Tank |
| 58 | 162043 | 1 | TANK, Fuel |
| 59 | 162074 | 1 | STRIPE, Hood |
| 60 | 170946 | 1 | HOOD |
| | 162038 | 1 | HOOD (990597 & 990598 Only) |
| 61 | 159135 | 1 | CAP, Fuel Tank |

**NOTE: Parts Reference No. 1-32 found on preceding page.**




NOTE Use standard hardware torque spec chart unless otherwise noted

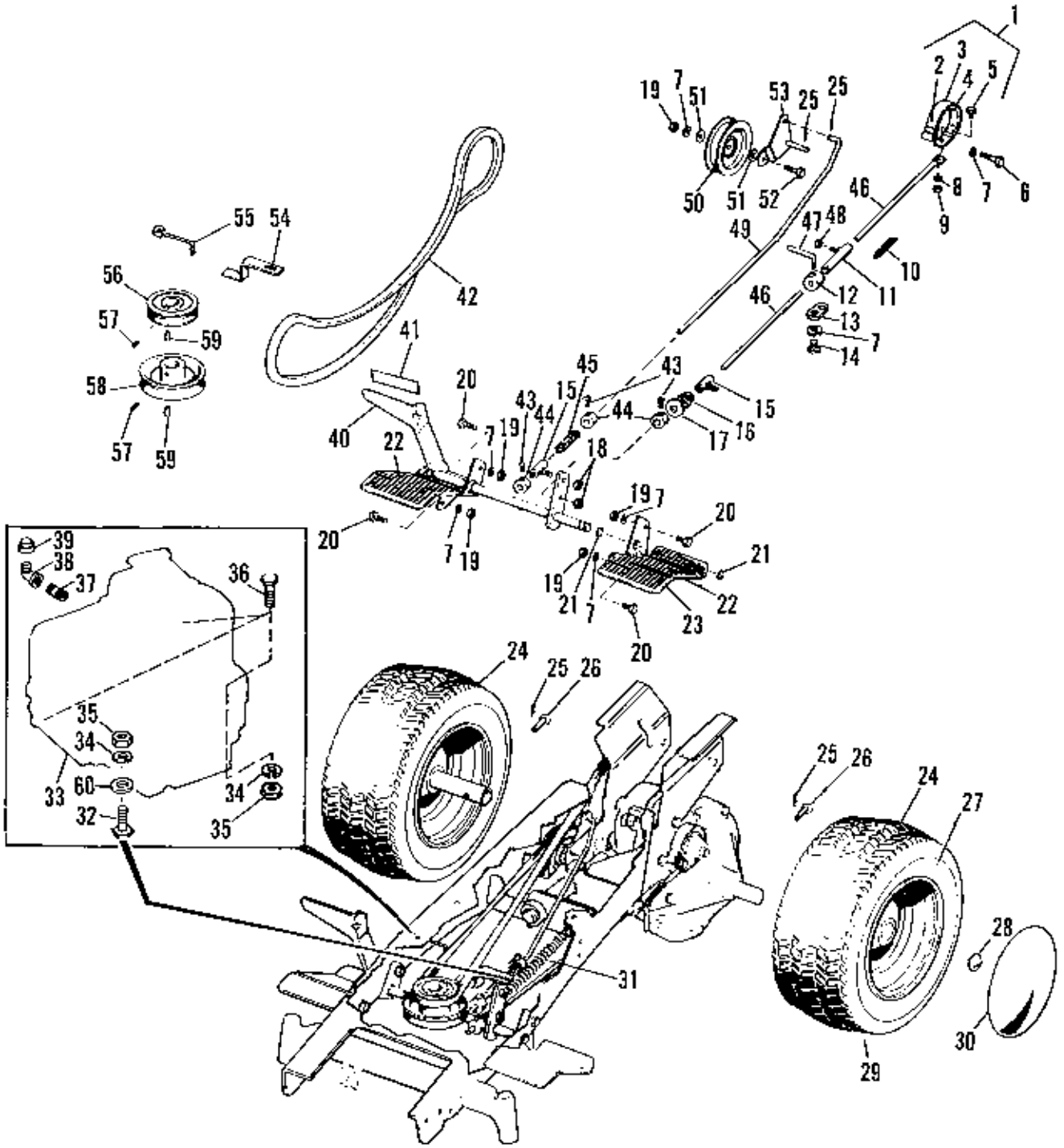
| Rel. No. | Part No. | Qty. | Description |
|---|---|---|---|
| 1 | 162094 | 1 | PAD, Seat |
| 2 | 159177 | 1 | TAPE, Seat Pan, 2 Feet |
| 3 | 162086 | 1 | DECAL, Yeoman |
| 4 | 917372 | 12 | NUT, Hex, 5/16-18 |
| 5 | 917356 | 16 | LOCKWASHER, 5/16 |
| 6 | 159085 | 4 | CONNECTOR, Cushion |
| 7 | 162105 | 1 | SUPPORT, Seat (990486 & 990542 Only) |
| | 162042 | 1 | SUPPORT, Seat |
| 8 | 921332 | 4 | CAPSCREW, Hex Hd., 5/16-18 x 3/4 |
| 9 | 916965 | 6 | LOCKWASHER, 3/8 |
| 10 | 918212 | 4 | CAPSCREW, Hex Hd., 7/16-14 x 1 |
| 11 | 921906 | 1 | CAPSCREW, Hex Hd., 3/8-16 x 7/8 |
| 12 | 916950 | 3 | NUT, Hex, Full, 3/8-16 |
| 13 | 156191 | 1 | BRACKET, Draw Bar |
| 14 | 156192 | 1 | CLIP, Draw Bar |
| 15 | 921210 | 2 | CAPSCREW, Hex Hd., 3/8-16 x 1 |
| 16 | 921977 | 2 | CAPSCREW, Hex Hd., 5/16-18 x 1-1/4 |
| 17 | 921965 | 3 | CAPSCREW, Hex Hd., 3/8-16 x 3/4 |
| 18 | 165040 | 1 | PLATE, Side, L.H. |
| | 162016 | 1 | PLATE, Side, L.H. (990415 Only) |
| 19 | 1655451 | 1 | PLATE ASSY., R.H. |
| | 174045 | 1 | PLATE ASSY., R.H. (990415 Only) |
| 20 | 918199 | 4 | LOCKWASHER, 7/16 |
| 21 | 921971 | 1 | CAPSCREW, Hex Hd., 3/8-16 x 1-1/4 |
| 22 | 105050 | 1 | WASHER |
| 23 | 154065 | 1 | COLLAR, Set |
| 24 | 928721 | 2 | SETSCREW, 5/16-18 x 1/2 |
| 25 | 162103 | 1 | FRAME ASSY. |
| | 162001 | 1 | FRAME ASSY. (990415 Only) |
| 26 | 923212 | 1 | WASHER, Plain, #10 |
| 27 | 912808 | 3 | FITTING, Grease |
| 28 | 154289 | 4 | BUSHING |
| 29 | 925205 | 4 | CAPSCREW, Hex Hd., 5/16-18 x 5/8 |
| 30 | 162077 | 1 | DECAL, Grille |
| 31 | 162036 | 1 | GRILLE |
| 32 | 930659 | 4 | NUT, Retainer |
| 33 | 162037 | 1 | SUPPORT, Grille |
| 34 | 162044 | 1 | VALVE, Shutoff |
| 35 | 162059 | 1 | HOSE, Fuel |
| 36 | 919339 | 4 | SCREW, Self Tapping, Hex Hd., #14 x 5/8 |
| 37 | 154372 | 2 | CLAMP, Hose |
| 38 | 917492 | 2 | SCREW, Machine, Fillister Hd., 1/4-20 x 1-3/4 |
| 39 | 930623 | 2 | NUT, Square, 1/4-20 |
| 40 | 162072 | 1 | DECAL, Clutch |
| 41 | 928703 | 14 | NUT, speed |
| 42 | 162109 | 1 | DECAL, Safety |
| | 162075 | 1 | DECAL, Safety (990415 Only) |
| 43 | 170085 | 1 | DASH ASSY. |
| 44 | 162071 | 1 | DECAL, Throttle |
| 45 | 106582 | 4 | PAD, Felt |
| 46 | 923188 | 2 | SCREW, Self Tapping, Hex Hd., 1/4-20 x 1/2 |
| 47 | 928693 | 4 | SCREW, Thumb, 5/16-18 x 3/4 |
| 48 | 158450 | 1 | GASKET, Felt |
| 49 | 162061 | 1 | CONTROL, Choke |
| 50 | 162107 | 2 | DECAL, Number |
| | 162076 | 2 | DECAL, Number (990415 Only) |
| 51 | 162043 | 1 | TANK, Fuel |
| 52 | 162060 | 2 | STRAP, Tank |
| 53 | 162074 | 1 | STRIPE, Hood |
| 54 | 162038 | 1 | HOOD |
| 55 | 159135 | 1 | CAP, Fuel Tank |
| 56 | 165066 | 1 | PAN, Seat |




NOTE Use standard hardware torque spec chart unless otherwise noted

| Ref. No. | Par No. | Qty. | Description |
|---|---|---|---|
| 1 | 156134 | 1 | BAND ASSY., Brake |
| 2 | 926021 | 3 | RIVET, #7 x 1/4 |
| 3 | 156135 | 1 | BAND, Brake |
| 4 | 156136 | 1 | LINING, Brake |
| 5 | 927340 | 1 | CAPSCREW, Hex Hd., 1/4-20 x 3/4 |
| 6 | 921969 | 1 | CAPSCREW, Hex Hd., 3/8-16 x 1-1/2 |
| 7 | 916965 | 7 | LOCKWASHER, 3/8 |
| 8 | 916964 | 1 | LOCKWASHER, 1/4 |
| 9 | 916622 | 1 | NUT, Hex, Full, 1/4-20 |
| 10 | 159106 | 1 | SPRING (990645 & 990646 Only) |
| | 121037 | 1 | SPRING |
| 11 | 165075 | 1 | GUIDE ASSY., Rod |
| | 156304 | 1 | GUIDE ASSY., Rod (990415, 990597 & 990598 Only) |
| 12 | 157087 | 1 | COLLAR, Parking Brake |
| 13 | 170659 | 1 | ANCHOR, Spring (990645 & 990646 Only) |
| 14 | 928730 | 1 | SCREW, Hex, Taptite, 3/8-16 x 1/2 (990645 & 990646 Only) |
| 15 | 156303 | 2 | GUIDE ASSY., Rod |
| 16 | 157127 | 1 | SPRING (990597, 990598, 990778, 990779 Only) |
| 17 | 917378 | 1 | WASHER, Plain, 3/8 (990597, 990598, 990778, 990779 Only) |
| 18 | 923362 | 2 | LOCKNUT, Hex, 5/16-18 (Qty. 1 on 990415, 990482, 990542 Only) |
| 19 | 916950 | 5 | NUT, Hex, Full, 3/8-16 |
| 20 | 921965 | 4 | CAPSCREW, Hex Hd., 3/8-16 x 3/4 |
| 21 | 158596 | 2 | RING, Snap (990645 & 990646 Only) |
| | 118240 | 1 | RING, Snap |
| 22 | 162054 | 2 | COVER, Footrest |
| 23 | 162029 | 1 | FOOTREST, L.H. |
| 24 | 171826 | 2 | WHEEL & TIRE ASSY., Rear (990645 & 990646 Only) |
| | 159096 | 2 | WHEEL & TIRE ASSY., Rear |
| 25 | 918451 | 3 | PIN, Cotter, 1/8 x 3/4 |
| 26 | 118053 | 2 | PIN |
| 27 | 173025 | 2 | WHEEL ASSY. |
| 28 | 121342 | 2 | BUTTON, Plug |
| 29 | 171827 | 2 | TIRE, Tubeless (990645 & 990646 Only) |
| | 157490 | 2 | TIRE, Tubeless |
| 30 | 156211 | 2 | CAP, Hub, Rear |

**NOTE: Parts Reference No. 31-60 cont'd. on the following page.**

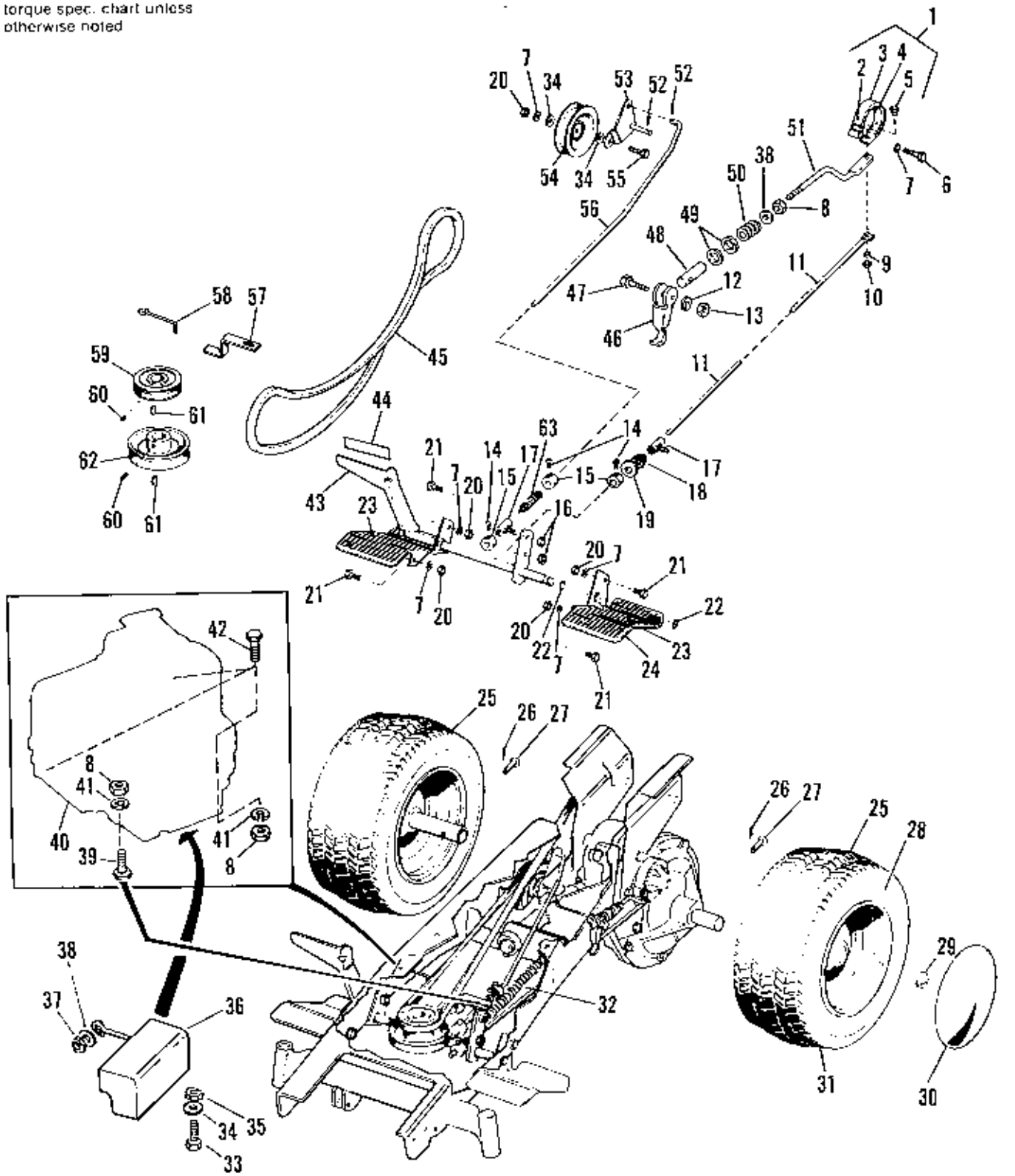



NOTE: Use standard hardware torque spec. chart unless otherwise noted.

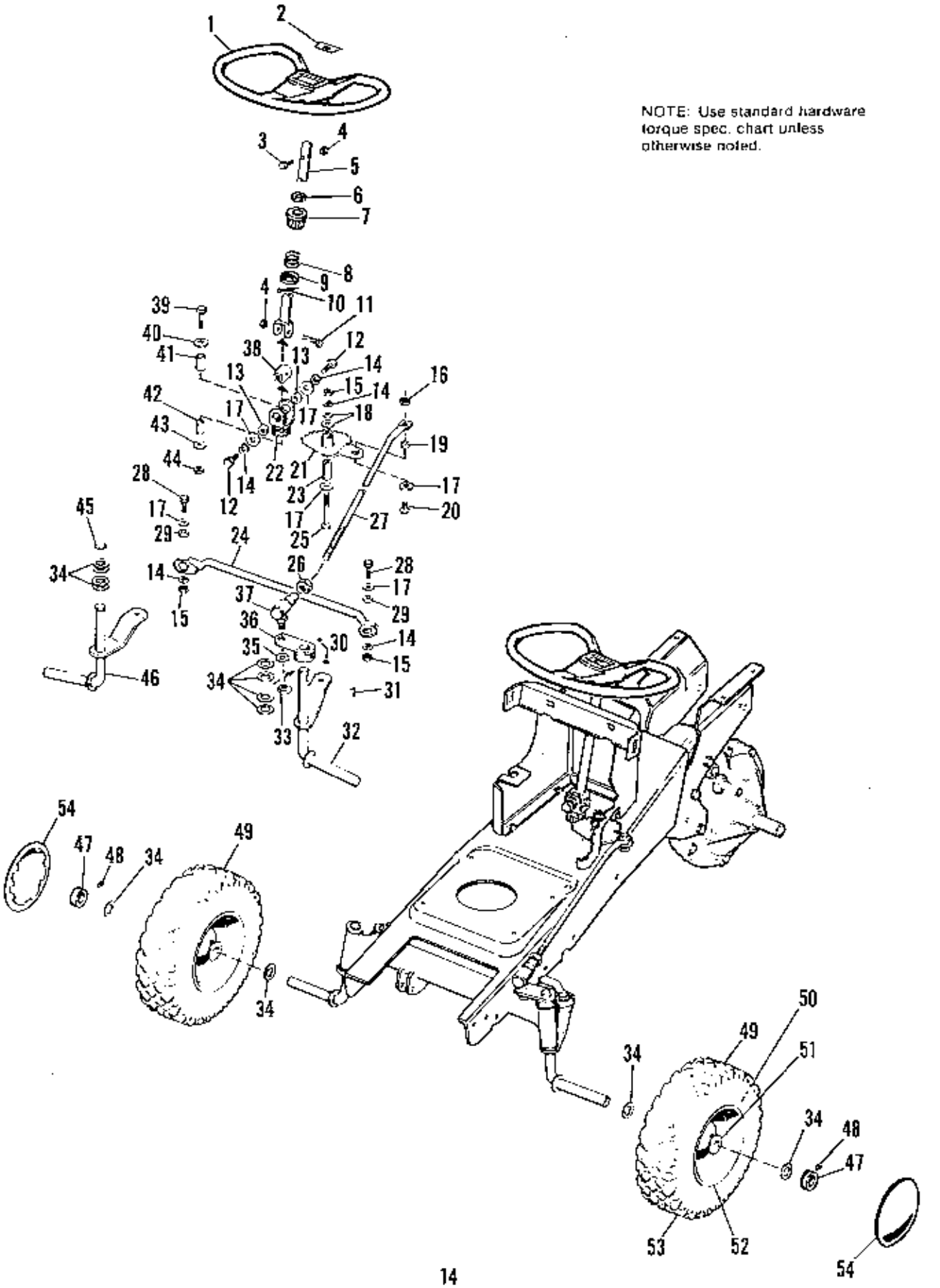
| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|
| 31 | 165068 | 1 | SPRING, Return |
| | 162082 | 1 | SPRING, Return (990415 Only) |
| 32 | 170844 | 1 | CAPSCREW, Special (990645 & 990646 Only) |
| | 921221 | 1 | CAPSCREW, Hex Hd., 5/16-18 x 1-1/2 |
| 33 | | 1 | ENGINE |
| 34 | 917356 | 4 | LOCKWASHER, 5/16 |
| 35 | 917372 | 4 | NUT, Hex, Full, 5/16-18 |
| 36 | 921221 | 4 | CAPSCREW, Hex Hd., 5/16-18 x 1-1/2 |
| 37 | 157497 | 1 | NIPPLE, Pipe, 3/8 |
| 38 | 910023 | 1 | ELBOW, Street, 45° |
| 39 | 901752 | 1 | CAP, 3/8 |
| 40 | 162024 | 1 | SHAFT ASSY., Clutch |
| 41 | 162098 | 1 | PAD, Pedal |
| 42 | 162081 | 1 | V-BELT, Drive |
| 43 | 928804 | 3 | SETSCREW, 1/4-20 x 3/8 |
| 44 | 8191022 | 3 | COLLAR, Set |
| 45 | 157041 | 1 | SPRING |
| | 159181 | 1 | SPRING (990415, 990486 & 990542 Only) |
| 46 | 162092 | 1 | ROD, Brake |
| 47 | 157088 | 1 | LOCK, Parking Brake |
| 48 | 923358 | 1 | LOCKNUT, Hex, 1/4-20 |
| 49 | 170064 | 1 | ROD, Clutch |
| | 163002 | 1 | ROD, Clutch (990415, 990486 & 990542 Only) |
| 50 | 106716 | 1 | PULLEY, Idler |
| 51 | 917642 | 2 | WASHER, Plain, 5/16 |
| 52 | 920415 | 1 | CAPSCREW, Hex Hd., 3/8-16 x 1-1/4 |
| 53 | 162021 | 1 | BRACKET ASSY., Pulley |
| 54 | 156331 | 1 | STOP, Belt |
| 55 | 8081035 | 1 | STOP, Belt |
| 56 | 162049 | 1 | PULLEY, Engine, Small |
| 57 | 930543 | 2 | SETSCREW, 5/16-18 x 1/2 |
| 58 | 156111 | 1 | PULLEY, Engine, Large |
| 59 | 154096 | 2 | KEY |
| 60 | 917377 | 1 | WASHER, Plain, 1/4 (990486, 990542, 990645 & 990646 Only) |

**NOTE: Parts Reference No. 1-30 found on preceding page.**

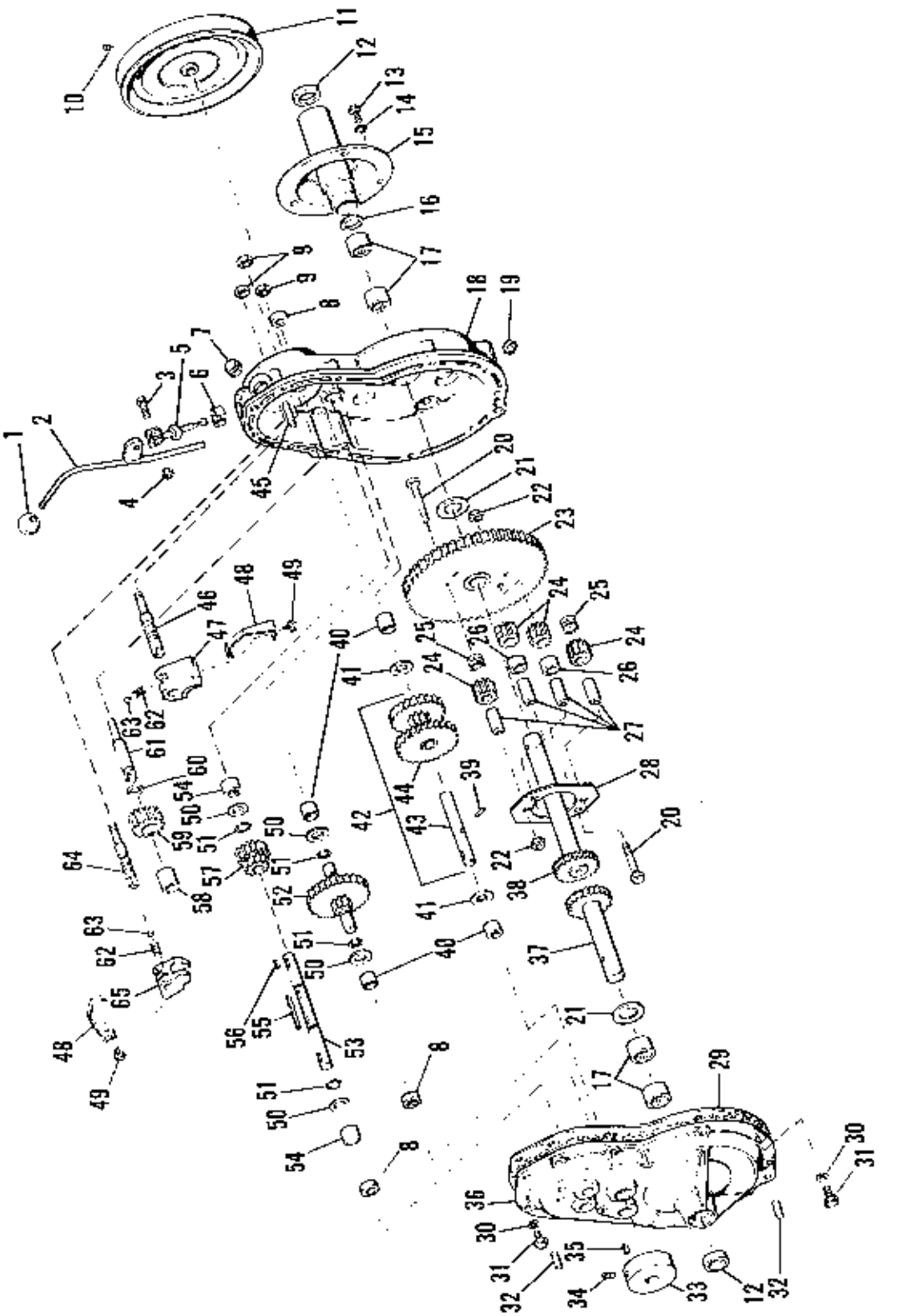
NOTE: Use standard hardware torque spec. chart unless otherwise noted



| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|
| 1 | 156134 | 1 | BAND ASSY., Brake |
| 2 | 926021 | 3 | RIVET, #7 x 1/4 |
| 3 | 156135 | 1 | BAND, Brake |
| 4 | 156136 | 1 | LINING, Brake |
| 5 | 927340 | 1 | CAPSCREW, Hex Hd., 1/4-20 x 3/4 |
| 6 | 921969 | 1 | CAPSCREW, Hex Hd., 3/8-16 x 1-1/2 |
| 7 | 916965 | 6 | LOCKWASHER, 3/8 |
| 8 | 917372 | 3 | NUT, Hex, Full, 5/16-18 |
| 9 | 916964 | 1 | LOCKWASHER, 1/4 |
| 10 | 916622 | 1 | NUT, Hex, Full, 1/4-20 |
| 11 | 162092 | 1 | ROD, Brake |
| 12 | 930666 | 1 | LOCKWASHER, Double, 1/4 |
| 13 | 923329 | 1 | LOCKNUT, Hex, 1/4-20 |
| 14 | 926804 | 3 | SETSCREW, 1/4-20 x 3/8 |
| 15 | 8191022 | 3 | COLLAR, Set |
| 16 | 923362 | 2 | LOCKNUT, Hex, 5/16-18 |
| 17 | 156303 | 2 | GUIDE ASSY., Rod |
| 18 | 157127 | 1 | SPRING |
| 19 | 917378 | 1 | WASHER, Plain, 3/8 |
| 20 | 916950 | 5 | NUT, Hex, Full, 3/8-16 |
| 21 | 921965 | 4 | CAPSCREW, Hex Hd., 3/8-16 x 3/4 |
| 22 | 1602155 | 2 | RING, Snap |
| 23 | 162054 | 2 | COVER, Footrest |
| 24 | 162029 | 1 | FOOTREST, L.H. |
| 25 | 171826 | 2 | WHEEL & TIRE ASSY., Rear |
| 26 | 918451 | 2 | PIN, Cotter, 1/8 x 3/4 |
| 27 | 118053 | 2 | PIN |
| 28 | 173025 | 2 | WHEEL |
| 29 | 121342 | 2 | BUTTON, Plug |
| 30 | 156211 | 2 | CAP, Hub, Rear |
| 31 | 171827 | 2 | TIRE, Tubeless |
| 32 | 165068 | 1 | SPRING, Return |
| 33 | 930598 | 1 | SCREW, Hex, Taptite, 3/8-16 x 1-1/2 (990905 Only) |
| 34 | 917642 | 4 | WASHER, Plain, 5/16 (Qty. 3 on 990778 & 990779 Only) |
| 35 | 930651 | 1 | LOCKNUT, Hex, 3/8-16 (990905 Only) |
| 36 | 176896 | 1 | GUARD ASSY. (990905 Only) |
| 37 | 923422 | 1 | LOCKNUT, Hex, 5/16-18 (990905 Only) |
| 38 | 917377 | 2 | WASHER, Plain, 1/4 (990905 Only) |
| 39 | 170844 | 1 | CAPSCREW, Special |
| 40 | | 1 | ENGINE |
| 41 | 917356 | 4 | LOCKWASHER, 5/16 |
| 42 | 921221 | 4 | CAPSCREW, Hex Hd., 5/16-18 x 1-1/2 |
| 43 | 162024 | 1 | SHAFT ASSY., Clutch |
| 44 | 162098 | 1 | PAD, Pedal |
| 45 | 162081 | 1 | V-BELT, Drive |
| 46 | 172108 | 1 | LEVER, Parking Brake |
| 47 | 928745 | 1 | CAPSCREW, Hex Hd., 1/4-20 x 1-1/4 |
| 48 | 171994 | 1 | ROD, End |
| 49 | 918431 | 2 | WASHER, Plain, 1/2 |
| 50 | 174482 | 1 | SPRING |
| 51 | 174636 | 1 | ROD, Parking Brake |
| 52 | 918451 | 2 | PIN, Cotter, 1/8 x 3/4 |
| 53 | 162021 | 1 | BRACKET ASSY., Pulley |
| 54 | 106716 | 1 | PULLEY, Idler |
| 55 | 920415 | 1 | CAPSCREW, Hex Hd., 3/8-16 x 1-1/4 |
| 56 | 170064 | 1 | ROD, Clutch |
| 57 | 156331 | 1 | STOP, Belt |
| 58 | 8081035 | 1 | STOP, Belt |
| 59 | 162049 | 1 | PULLEY, Engine, Small |
| 60 | 930543 | 2 | SETSCREW, 5/16-18 x 1/2 |
| 61 | 154096 | 2 | KEY |
| 62 | 156111 | 1 | PULLEY, Engine, Large |
| 63 | 157041 | 1 | SPRING, Compression |


NOTE: Use standard hardware torque spec. chart unless otherwise noted.

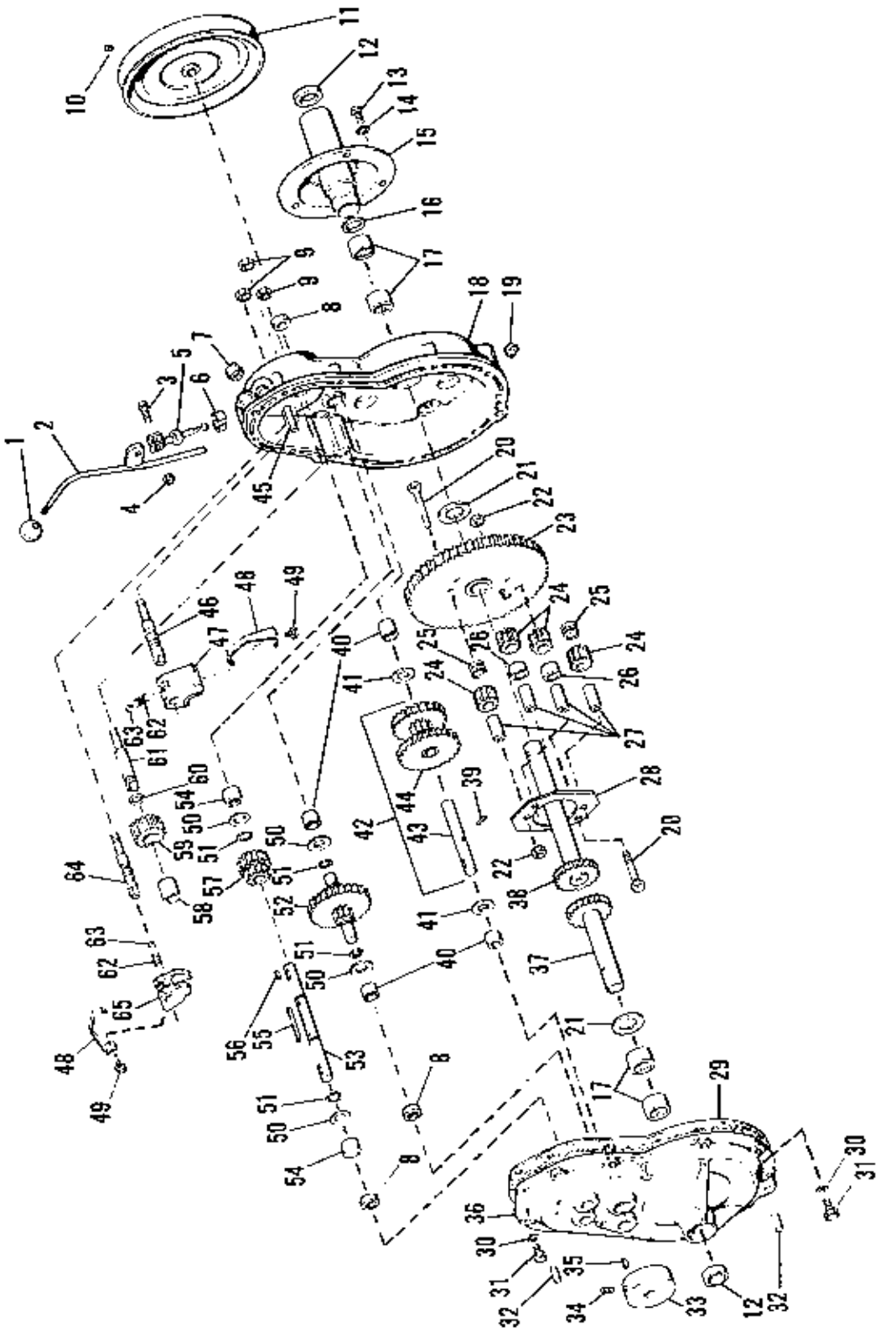
| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|
| 1 | 163113 | 1 | WHEEL ASSY., Steering |
| 2 | 170107 | 1 | DECAL |
| 3 | 921977 | 1 | CAPSCREW, Hex Hd., 5/16-18 x 1-1/4 |
| 4 | 923362 | 2 | LOCKNUT, Hex, 5/16-18 |
| 5 | 156029 | 1 | SHAFT ASSY., Steering |
| 6 | 154264 | 1 | RING, Retaining |
| | 157241 | 1 | RING, Snap (990486, 990542, 990597 & 990598 Only) |
| 7 | 157077 | 1 | BUSHING |
| 8 | 154398 | 1 | SPRING |
| 9 | 154399 | 1 | CUP, Spring |
| 10 | 919314 | 1 | PIN, Cotter, 3/16 x 1-1/4 |
| 11 | 930570 | 1 | CAPSCREW, Hex Hd., 5/16-18 x 1-1/2 |
| 12 | 921965 | 2 | CAPSCREW, Hex Hd., 3/8-16 x 3/4 |
| 13 | 153081 | 2 | SPACER |
| 14 | 916965 | 5 | LOCKWASHER, 3/8 |
| 15 | 916950 | 3 | NUT, Hex, Full, 3/8-16 |
| 16 | 930651 | 1 | LOCKNUT, Hex, 3/8-16 |
| 17 | 917378 | 6 | WASHER, Plain, 3/8 |
| 18 | 8161199 | 2 | WASHER |
| 19 | 121349 | 1 | SPACER |
| 20 | 921210 | 1 | CAPSCREW, Hex Hd., 3/8-16 x 1 |
| 21 | 156066 | 1 | GEAR ASSY., Steering |
| 22 | 1650588 | 1 | FORK & PINION ASSY. |
| 23 | 8061058 | 1 | SPACER |
| 24 | 162013 | 1 | LINK ASSY., Drag |
| 25 | 921972 | 1 | CAPSCREW, Hex Hd., 3/8-16 x 2-1/2 |
| 26 | 919262 | 1 | LOCKNUT, Hex, Jam, 1/2-20 |
| 27 | 162045 | 1 | ROD, Tie |
| 28 | 162053 | 2 | SCREW, Special, 3/8-16 x 1-1/4 |
| 29 | 154177 | 2 | SPACER |
| 30 | 928721 | 2 | SETSCREW, 5/16-18 x 1/2 |
| 31 | 930670 | 1 | KEY |
| 32 | 162009 | 1 | SPINDLE ASSY., L.H. |
| 33 | 919423 | 1 | NUT, Hex, Full, 1/2-13 |
| 34 | 108181 | 12 | WASHER |
| 35 | 916966 | 1 | LOCKWASHER, 1/2 |
| 36 | 156007 | 1 | LEVER ASSY., Steering |
| 37 | 154301 | 1 | JOINT, Ball |
| 38 | 154153 | 1 | PIN, Universal Joint |
| 39 | 923470 | 1 | CAPSCREW, Hex Hd., 3/8-16 x 1-1/2 |
| 40 | 156065 | 1 | WASHER |
| 41 | 156064 | 1 | BUSHING |
| 42 | 8161218 | 1 | SPACER |
| 43 | 917642 | 1 | WASHER, Plain, 5/16 |
| 44 | 928731 | 1 | LOCKNUT, Hex, Jam, 3/8-16 |
| 45 | 927794 | 1 | RING, Retaining |
| 46 | 162011 | 1 | SPINDLE ASSY., R.H. |
| 47 | 8021010 | 2 | COLLAR, Set |
| 48 | 928691 | 2 | SETSCREW, 5/16-18 x 5/16 |
| 49 | 156179 | 2 | WHEEL & TIRE ASSY. |
| 50 | 156182 | 2 | TUBE |
| 51 | 156316 | 2 | BEARING (for Service) |
| 52 | 1651774 | 2 | WHEEL |
| 53 | 156181 | 2 | TIRE |
| 54 | 156210 | 2 | CAP, Hub, Front |



NOTE: Use standard hardware torque spec chart unless otherwise noted

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|
| 1 | 8021050 | 1 | KNOB |
| 2 | 165063 | 1 | ROD ASSY., Shift |
| 3 | 923341 | 1 | CAPSCREW, Hex Hd., 1/4-20 x 3/4 |
| 4 | 923358 | 1 | LOCKNUT, Hex, 1/4-20 |
| 5 | 156031 | 1 | ROD ASSY., Shift |
| 6 | 101042 | 2 | BUSHING, Hall |
| 7 | 930676 | 2 | PLUG, Pipe |
| 8 | 156084 | 3 | SEAL, Oil |
| 9 | 918213 | 3 | NUT, Hex, Full, 7/16-14 |
| 10 | 924624 | 1 | SETSCREW, 3/8-24 x 3/8 |
| 11 | 156119 | 1 | PULLEY |
| 12 | 118118 | 2 | SEAL, Oil |
| 13 | 921966 | 3 | CAPSCREW, Hex Hd., 3/8-16 x 7/8 |
| 14 | 916965 | 3 | LOCKWASHER, 3/8 |
| 15 | 156096 | 1 | HOUSING ASSY., Axle |
| 16 | 156099 | 1 | SEAL, Oil |
| 17 | 105195 | 4 | BEARING, Roller |
| 18 | 1655591 | 1 | CASE ASSY., Gear |
| 19 | 901653 | 1 | PLUG, Pipe, 3/8 |
| 20 | 921972 | 4 | CAPSCREW, Hex Hd., 3/8-16 x 2-1/2 |
| 21 | 105083 | 2 | WASHER |
| 22 | 930651 | 4 | LOCKNUT, Hex, 3/8-16 |
| 23 | 1663715 | 1 | GEAR ASSY., Drive |
| 24 | 158579 | 4 | PINION, Diff. |
| 25 | 152085 | 2 | SPRING |
| 26 | 121084 | 2 | SPACER, Diff. |
| 27 | 121083 | 4 | SPINDLE, Diff. |
| 28 | 156002 | 1 | PLATE, Diff. |
| 29 | 156103 | 1 | GASKET |
| 30 | 917356 | 10 | LOCKWASHER, 5/16 |
| 31 | 921977 | 10 | CAPSCREW, Hex Hd., 5/16-18 x 1-1/4 |
| 32 | 916113 | 2 | PIN, Roll, 3/8 x 1 |

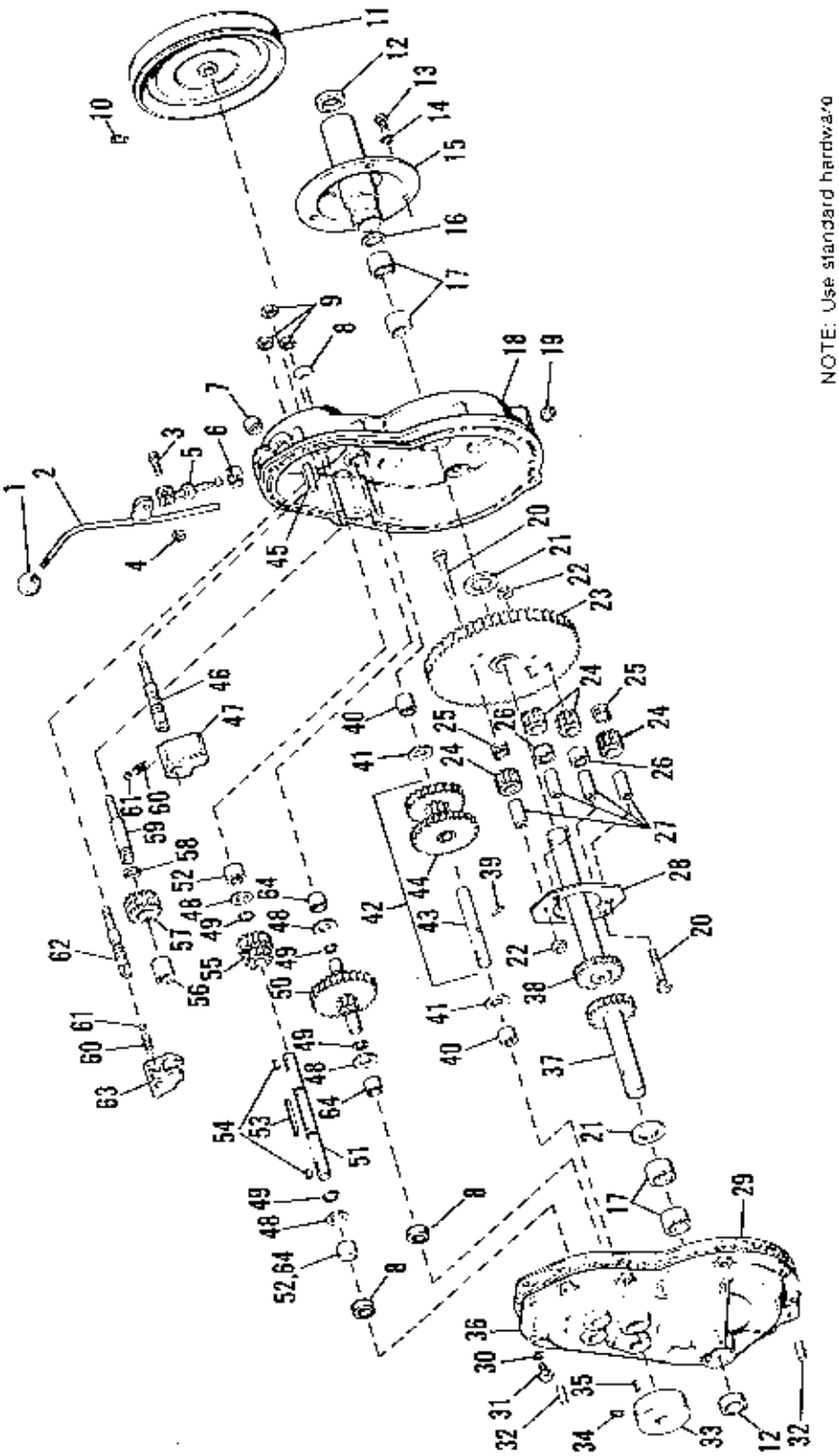
**NOTE: Parts Reference Nos. 33-65 cont'd. on the following page.**



NOTE. Use standard hardware torque spec. chart unless otherwise noted

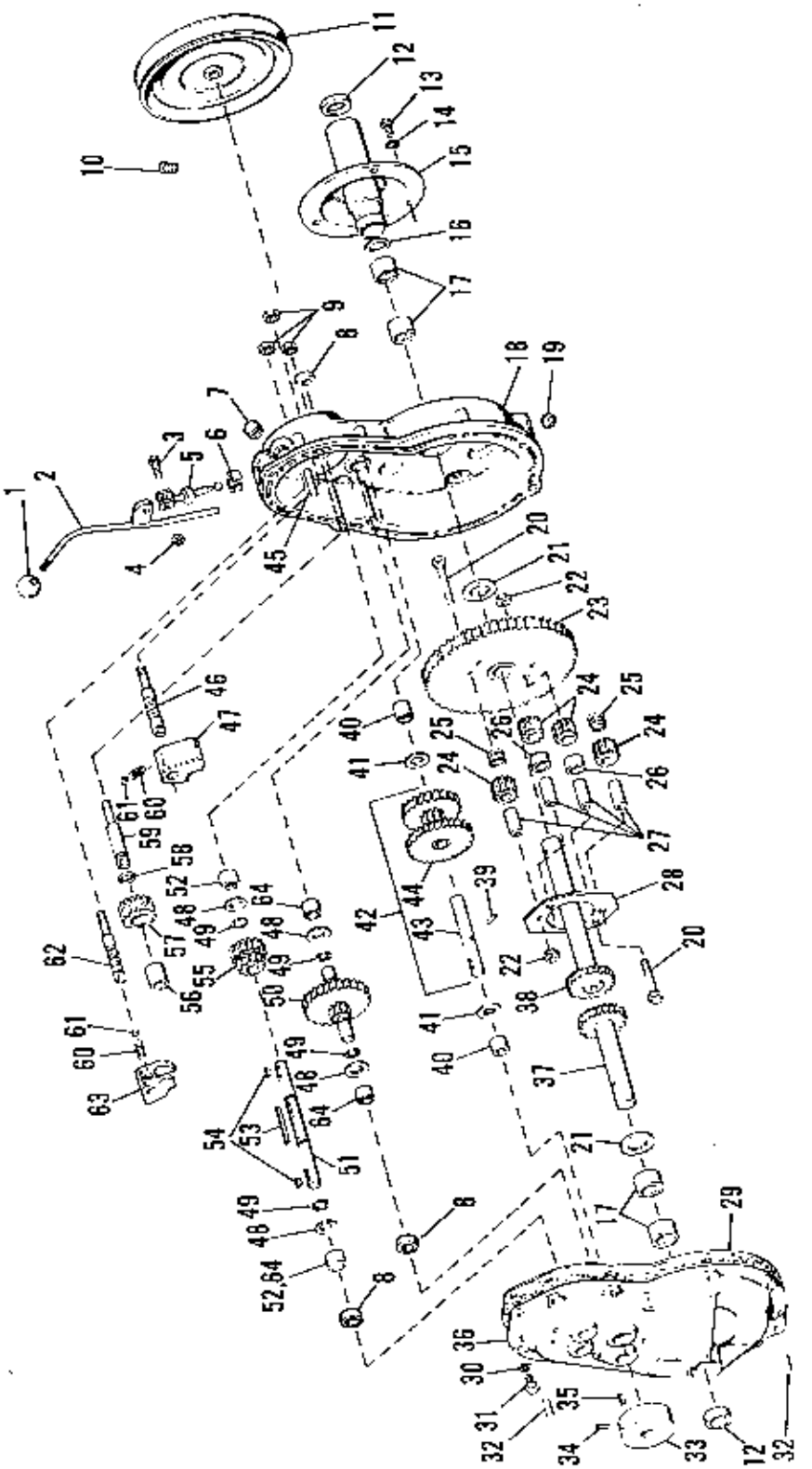
| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|
| 33 | 165057 | 1 | DRUM, Brake |
| 34 | 930543 | 1 | SETSCREW, 5/16-18 x 1/2 |
| 35 | 930669 | 1 | KEY |
| 36 | 165018 | 1 | COVER ASSY., Gear Case |
| 37 | 165019 | 1 | SHAFT ASSY., Axle, L.H. |
| | 156104 | 1 | SHAFT ASSY., Axle, L.H. (990645 & 990646 Only) |
| 38 | 165016 | 1 | SHAFT ASSY., Axle, R.H. |
| | 156100 | 1 | SHAFT ASSY., Axle, R.H. (990645 & 990646 Only) |
| 39 | 156292 | 1 | PIN, Dowel |
| 40 | 156073 | 4 | BEARING, Roller |
| 41 | 156089 | 2 | WASHER |
| 42 | 165009 | 1 | SHAFT & GEAR ASSY. |
| 43 | 165010 | 1 | SHAFT & BRAKE |
| 44 | 165011 | 1 | GEAR ASSY., Cluster |
| 45 | 156308 | 2 | PIN ASSY., Roll |
| 46 | 171372 | 1 | SHAFT, Shift, Hi-Lo |
| 47 | 171364 | 1 | FORK, Shift, I & II |
| 48 | 171342 | 2 | SPRING |
| 49 | 930614 | 2 | SCREW, Hex, Washer Hd., 5/16-18 x 5/16 |
| 50 | 156085 | 4 | WASHER |
| 51 | 806104B | 4 | RING, Retaining |
| 52 | 165013 | 1 | GEAR & SHAFT ASSY. |
| 53 | 170455 | 1 | SHAFT, Pulley, P.T.O. |
| 54 | 156072 | 2 | BEARING, Roller |
| 55 | 170453 | 1 | KEY |
| 56 | 930670 | 1 | KEY |
| 57 | 156087 | 1 | PINION ASSY., Hi-Lo |
| 58 | 156082 | 1 | BEARING, Roller |
| 59 | 1650625 | 1 | PINION, Reverse |
| 60 | 165006 | 1 | O-Ring |
| 61 | 165005 | 1 | SHAFT, Pinion, Reverse |
| 62 | 171456 | 2 | SPRING |
| | 154323 | 2 | SPRING (990645 & 990646 Only) |
| 63 | 154262 | 2 | BALL, Shift Lock |
| 64 | 171365 | 1 | SHAFT, Shift, Reverse |
| 65 | 171363 | 1 | FORK, Shift, Reverse |

**NOTE: Parts Reference No. 1-32 found on preceding page.**


NOTE: Use standard hardware torque spec chart unless otherwise noted

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|
| 1 | 8021050 | 1 | KNOB |
| 2 | 165063 | 1 | ROD ASSY., Shift |
| 3 | 923341 | 1 | CAPSCREW, Hex Hd., 1/4-20 x 3/4 |
| 4 | 923358 | 1 | LOCKNUT, Hex, 1/4-20 |
| 5 | 156031 | 1 | ROD ASSY., Shift |
| 6 | 101042 | 2 | BUSHING, Hall |
| 7 | 930676 | 2 | PLUG, Pipe |
| 8 | 156084 | 3 | SEAL, Oil |
| 9 | 918213 | 3 | NUT, Hex, Full, 7/16-14 |
| 10 | 924624 | 1 | SETSCREW, 3/8-24 x 3/8 |
| 11 | 156119 | 1 | PULLEY |
| 12 | 118118 | 2 | SEAL, Oil |
| 13 | 921966 | 3 | CAPSCREW, Hex Hd., 3/8-16 x 7/8 |
| 14 | 916965 | 3 | LOCKWASHER, 3/8 |
| 15 | 156096 | 1 | HOUSING ASSY., Axle |
| 16 | 156099 | 1 | SEAL, Oil |
| 17 | 105195 | 4 | BEARING, Roller |
| 18 | 1655591 | 1 | CASE ASSY., Gear |
| 19 | 901653 | 1 | PLUG, Pipe, 3/8 |
| 20 | 921972 | 4 | CAPSCREW, Hex Hd., 3/8-16 x 2-1/2 |
| 21 | 105083 | 2 | WASHER |
| 22 | 930651 | 4 | LOCKNUT, Hex, 3/8-16 |
| 23 | 1663715 | 1 | GEAR ASSY., Drive |
| 24 | 158579 | 4 | PINION, Diff. |
| 25 | 162085 | 2 | SPRING |
| 26 | 121084 | 2 | SPACER, Diff. |
| 27 | 121083 | 4 | SPINDLE, Diff. |
| 28 | 156002 | 1 | PLATE, Diff. |
| 29 | 156103 | 1 | GASKET |
| 30 | 917356 | 10 | LOCKWASHER, 5/16 |
| 31 | 921977 | 10 | CAPSCREW, Hex Hd., 5/16-18 x 1-1/4 |

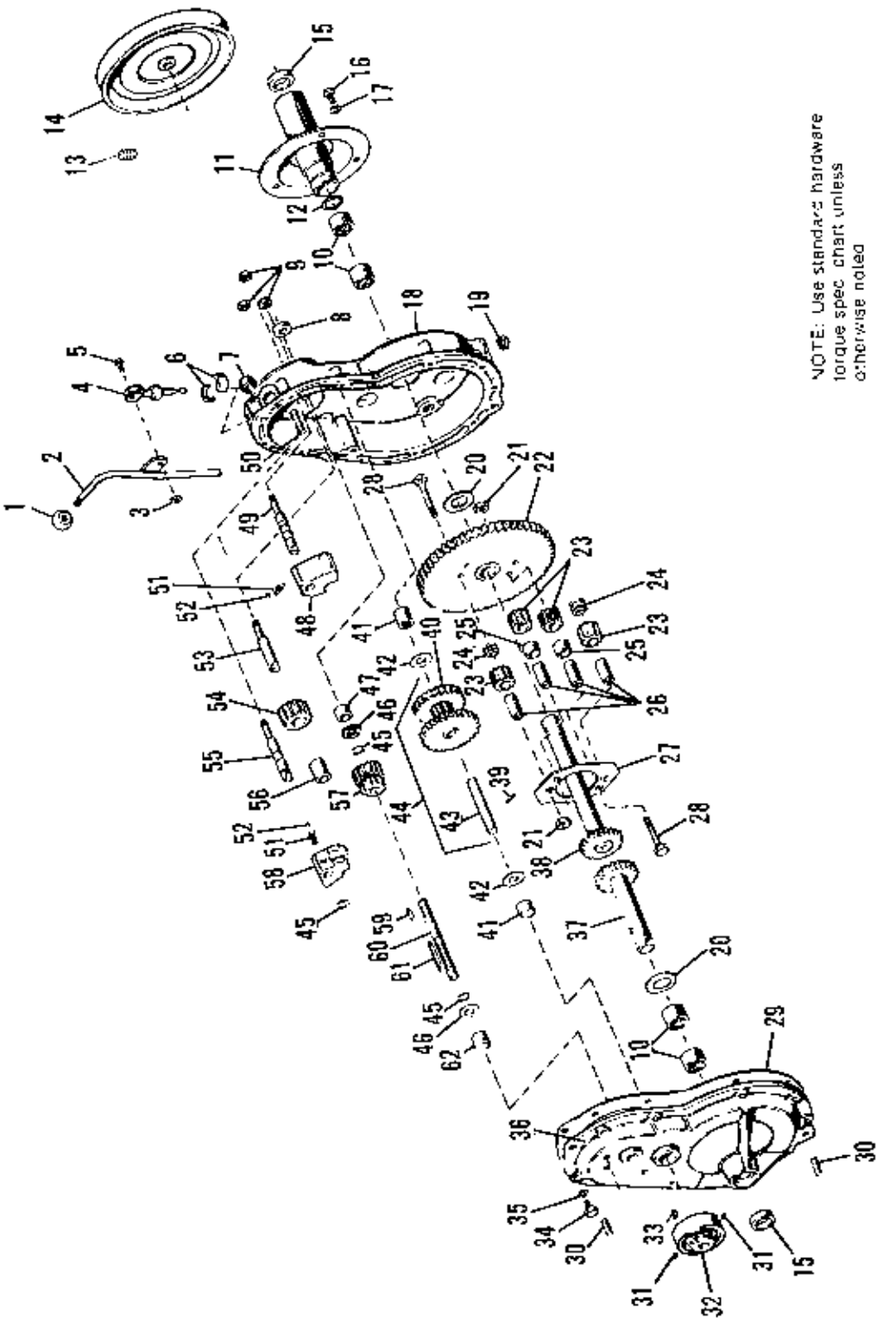
**NOTE: Parts Reference No. 32-64 cont'd. on the following page.**



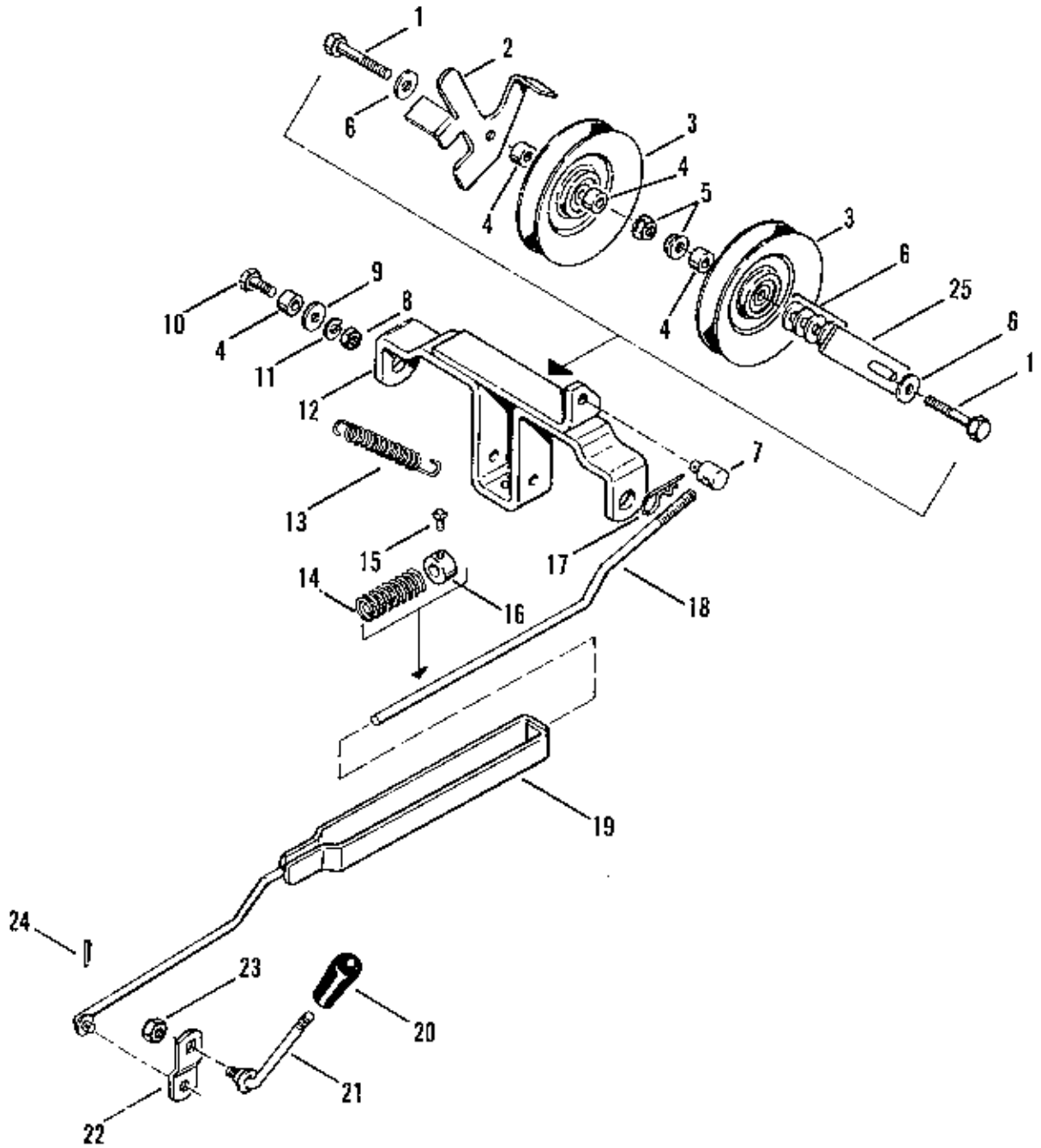
NOTE Use standard hardware torque spec chart unless otherwise noted.

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|
| 32 | 918113 | 2 | PIN, Roll, 3/8 x 1 |
| 33 | 165067 | 1 | DRUM, Brake |
| 34 | 930543 | 1 | SETSCREW, 5/16-18 x 1/2 |
| 35 | 930669 | 1 | KEY |
| 36 | 165018 | 1 | COVER ASSY., Gear Case |
| 37 | 156104 | 1 | SHAFT ASSY., Axle, L.H. |
| 38 | 156100 | 1 | SHAFT ASSY., Axle, R.H. |
| 39 | 156292 | 1 | PIN, Dowel |
| 40 | 156073 | 4 | BEARING, Roller (Qty. 2 on 990486 & 990542 Only) |
| 41 | 156089 | 2 | WASHER |
| 42 | 165009 | 1 | SHAFT & GEAR ASSY. |
| 43 | 165010 | 1 | SHAFT & BRAKE |
| 44 | 165011 | 1 | GEAR ASSY., Cluster |
| 45 | 156308 | 2 | PIN ASSY., Roll |
| 46 | 171372 | 1 | SHAFT, Shift, Hi-Lo |
| 47 | 156080 | 1 | FORK, Shift, I & II |
| 48 | 156085 | 4 | WASHER |
| 49 | 8061048 | 4 | RING, Retaining |
| 50 | 165013 | 1 | GEAR & SHAFT ASSY. |
| 51 | 170455 | 1 | SHAFT, Pulley, P.T.O. (990597 & 990598 Only) |
| | 103238 | 1 | SHAFT, Pulley, P.T.O. |
| 52 | 156072 | 2 | BEARING, Roller (Qty. 1 on 990486 & 990542 Only) |
| 53 | 170453 | 1 | KEY (990597 & 990598 Only) |
| | 156086 | 1 | KEY |
| 54 | 903670 | 1 | KEY |
| 55 | 156087 | 1 | PINION ASSY., Hi-Lo |
| 56 | 156082 | 1 | BEARING, Roller |
| 57 | 1650625 | 1 | PINION, Reverse |
| 58 | 165006 | 1 | O-Ring |
| 59 | 165005 | 1 | SHAFT, Pinion, Reverse |
| 60 | 171456 | 2 | SPRING (990597 & 990598 Only) |
| | 154323 | 2 | SPRING |
| 61 | 154262 | 2 | BALL, Shift Lock |
| 62 | 165004 | 1 | SHAFT, Shift, Reverse |
| 63 | 171363 | 1 | FORK, Shift, Reverse |
| 64 | 156102 | 3 | BEARING, Roller (990486 & 990542 Only) |

**NOTE: Parts Reference No. 1-31 found on preceding page.**


NOTE: Use standard hardware
torque spec chart unless
otherwise noted

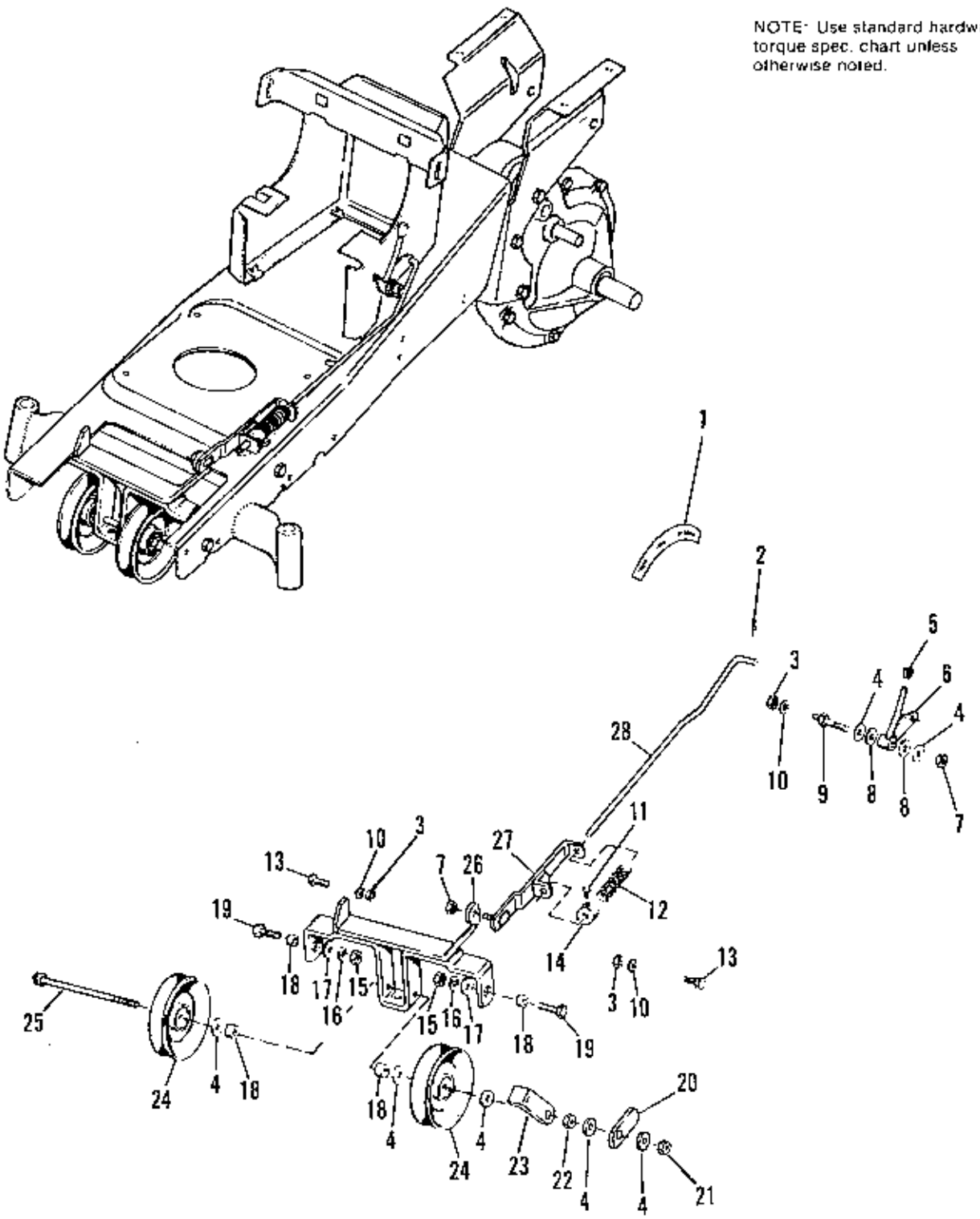
| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|
| 1 | 8021050 | 1 | KNOB |
| 2 | 162046 | 1 | LEVER ASSY., Shift |
| 3 | 923358 | 1 | LOCKNUT, Hex, 1/4-20 |
| 4 | 156031 | 1 | ROD ASSY., Shift |
| 5 | 923341 | 1 | CAPSCREW, Hex Hd., 1/4-20 x 3/4 |
| 6 | 101042 | 2 | BUSHING, Half |
| 7 | 930676 | 2 | PLUG, Pipe |
| 8 | 156084 | 1 | SEAL, Oil |
| 9 | 918213 | 3 | NUT, Hex, Full, 7/16-14 |
| 10 | 105195 | 4 | BEARING, Roller |
| 11 | 156096 | 1 | HOUSING ASSY., Axle |
| 12 | 156099 | 1 | SEAL, Oil |
| 13 | 924624 | 1 | SETSCREW, 3/8-24 x 3/8 |
| 14 | 156119 | 1 | PULLEY |
| 15 | 118118 | 2 | SEAL, Oil |
| 16 | 921966 | 3 | CAPSCREW, Hex Hd., 3/8-16 x 7/8 |
| 17 | 916965 | 3 | LOCKWASHER, 3/8 |
| 18 | 156017 | 1 | CASE ASSY., Gear |
| 19 | 901653 | 1 | PLUG, Pipe, 3/8 |
| 20 | 105083 | 2 | WASHER |
| 21 | 930651 | 4 | LOCKWASHER, 3/8-16 |
| 22 | 1663715 | 1 | GEAR ASSY., Drive |
| 23 | 158579 | 4 | PINION, Diff. |
| 24 | 162085 | 2 | SPRING |
| 25 | 121084 | 2 | SPACER, Diff. |
| 26 | 121083 | 4 | SPINDLE, Diff. |
| 27 | 156002 | 1 | PLATE, Diff. |
| 28 | 921972 | 4 | CAPSCREW, Hex Hd., 3/8-16 x 2-1/2 |
| 29 | 156103 | 1 | GASKET |
| 30 | 918113 | 2 | PIN, Roll, 3/8 x 1 |
| 31 | 928691 | 2 | SETSCREW, 5/16-18 x 5/16 |
| 32 | 165067 | 1 | DRUM, Brake |
| 33 | 930669 | 1 | KEY |
| 34 | 921977 | 10 | CAPSCREW, Hex Hd., 5/16-18 x 1-1/4 |
| 35 | 917356 | 10 | LOCKWASHER, 5/16 |
| 36 | 156018 | 1 | COVER ASSY., Gear Case |
| 37 | 156104 | 1 | SHAFT ASSY., Axle, L.H. |
| 38 | 156100 | 1 | SHAFT ASSY., Axle, R.H. |
| 39 | 156292 | 1 | PIN, Dowel |
| 40 | 156090 | 1 | GEAR ASSY., Cluster |
| 41 | 156073 | 2 | BEARING, Roller |
| 42 | 156089 | 2 | WASHER |
| 43 | 156088 | 1 | SHAFT, Brake |
| 44 | 156290 | 1 | GEAR ASSY., Cluster |
| 45 | BD61048 | 3 | RING, Retaining |
| 46 | 156085 | 2 | WASHER |
| 47 | 156072 | 1 | BEARING, Roller |
| 48 | 156080 | 1 | FORK, Shift I & II |
| 49 | 171372 | 1 | SHAFT, Shift, Hi-Lo |
| 50 | 156308 | 2 | PIN ASSY., Roll |
| 51 | 154323 | 2 | SPRING |
| 52 | 154262 | 2 | BALL, Shift Lock |
| 53 | 156081 | 1 | SHAFT, Pinion, Reverse |
| 54 | 1650625 | 1 | PINION, Reverse |
| 55 | 156077 | 1 | SHAFT, Shift, Reverse |
| 56 | 156082 | 1 | BEARING, Roller |
| 57 | 156087 | 1 | PINION ASSY., Hi-Lo |
| 58 | 171363 | 1 | FORK, Shift, Reverse |
| 59 | 930670 | 1 | KEY |
| 60 | 156083 | 1 | SHAFT, Pulley |
| 61 | 156086 | 1 | KEY |
| 62 | 156102 | 1 | BEARING, Roller |



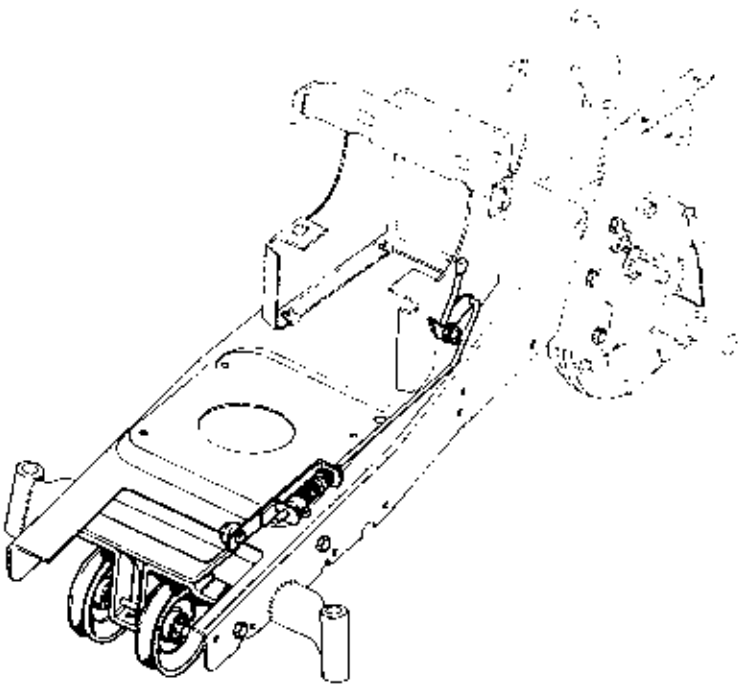

NOTE: Use standard hardware torque spec. chart unless otherwise noted.

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|
| 1 | 923701 | 2 | CAPSCREW, Hex Hd., 3/8-16 x 2 |
| 2 | 176693 | 1 | STOP |
| 3 | 101096 | 2 | PULLEY, Idler |
| 4 | 154177 | 5 | SPACER |
| 5 | 928352 | 2 | LOCKNUT, Flange, 3/8-16 |
| 6 | 917642 | 6 | WASHER, Plain, 5/16 |
| 7 | 1606623 | 1 | PIVOT, Rod End |
| 8 | 916950 | 2 | NUT, Hex, Full, 3/8-16 |
| 9 | 917378 | 1 | WASHER, Plain, 3/8 |
| 10 | 921210 | 2 | CAPSCREW, Hex Hd., 3/8-16 x 1 |
| 11 | 916965 | 2 | LOCKWASHER, 3/8 |
| 12 | 1606530 | 1 | CLEVIS ASSY., Pulley |
| 13 | 159106 | 1 | SPRING |
| 14 | 1606536 | 1 | SPRING |
| 15 | 928804 | 1 | SETSCREW, 1/4-20 x 3/8 |
| 16 | 105201 | 1 | COLLAR, Set |
| 17 | 8161045 | 1 | CLIP, Spring |
| 18 | 1606529 | 1 | ROD |
| 19 | 176476 | 1 | GUIDE ASSY., P.T.O. |
| 20 | 172038 | 1 | KNOB |
| 21 | 172040 | 1 | HANDLE, Clutch Control |
| 22 | 1606550 | 1 | ARM, P.T.O. |
| 23 | 930651 | 1 | LOCKNUT, Hex, 3/8-16 |
| 24 | 922000 | 1 | PIN, Cotter, 3/32 x 5/8 |
| 25 | 162119 | 1 | STOP |

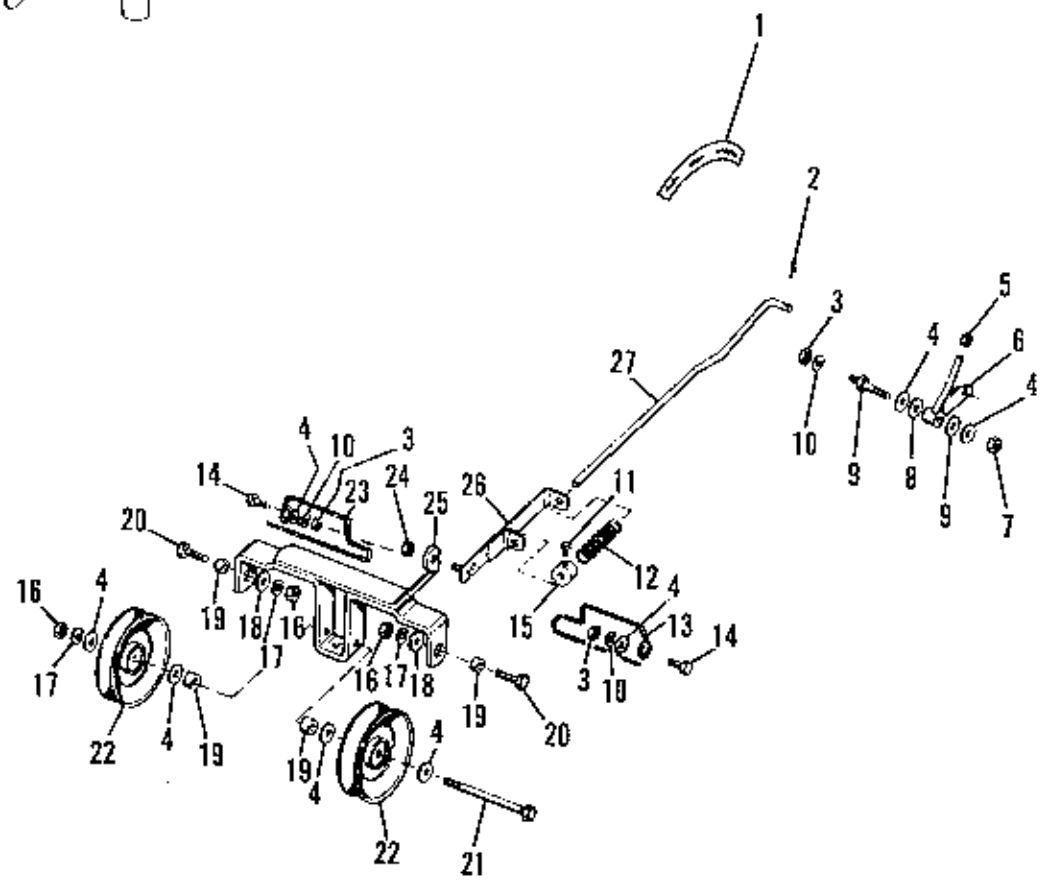
NOTE: Use standard hardware torque spec. chart unless otherwise noted.



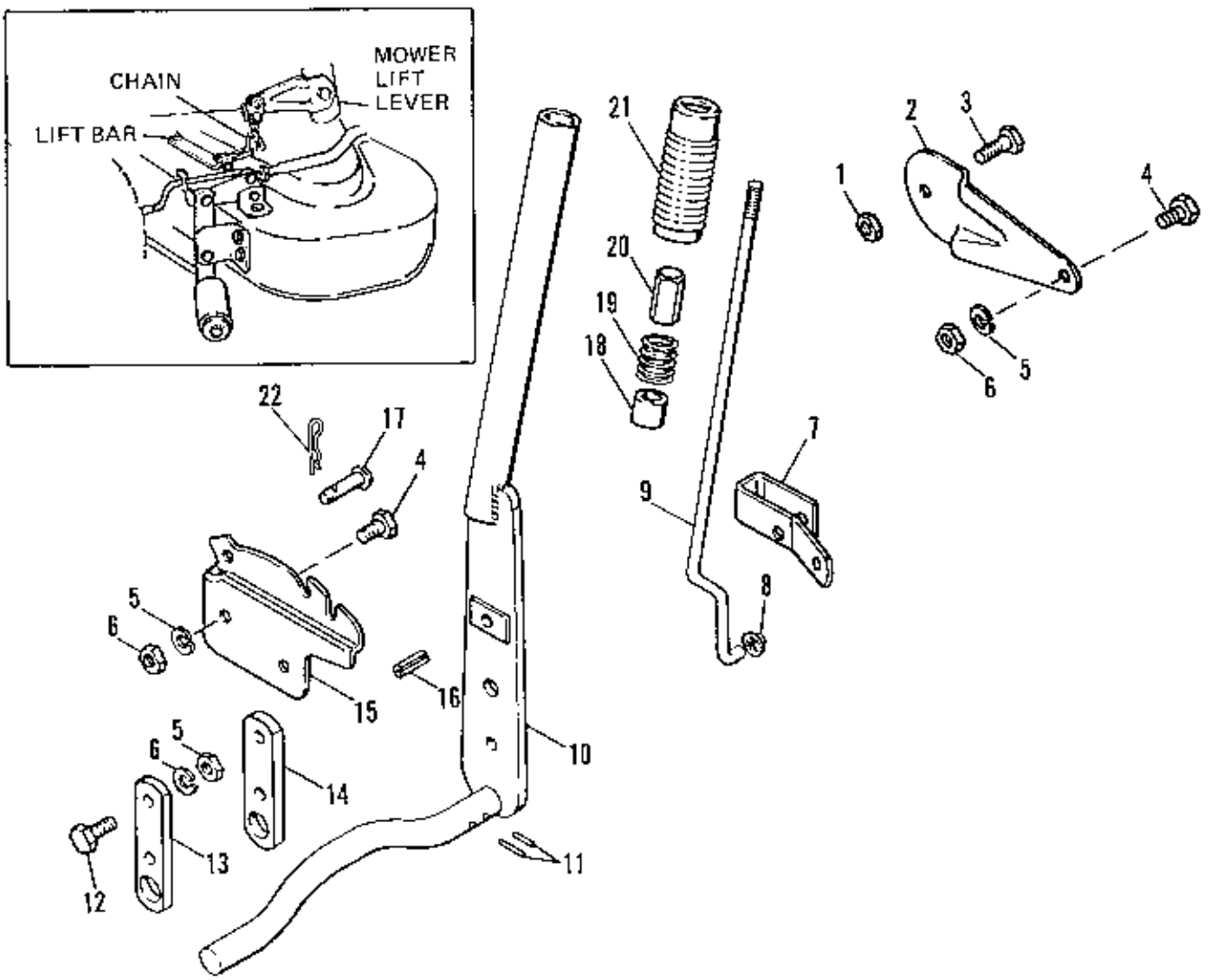
| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|
| 1 | 162093 | 1 | DECAL, P.T.O. |
| 2 | 922000 | 1 | PIN, Cotter, 3/32 x 5/8 |
| 3 | 917372 | 3 | NUT, Hex, Full, 5/16-18 |
| 4 | 917642 | 7 | WASHER, Plain, 5/16 |
| 5 | 159112 | 1 | KNOB |
| 6 | 162050 | 1 | HANDLE ASSY., P.T.O. |
| 7 | 923362 | 2 | LOCKNUT, Hex, 5/16-18 |
| 8 | 159134 | 2 | WASHER, Nylon |
| 9 | 170108 | 1 | STUD |
| | 162063 | 1 | STUD (990486 & 990542 Only) |
| 10 | 917356 | 3 | LOCKWASHER, 5/16 |
| 11 | 928804 | 1 | SETSCREW, 1/4-20 x 3/8 |
| 12 | 163103 | 1 | SPRING (990645, 990646, 990778 & 990779 Only) |
| | 162065 | 1 | SPRING |
| 13 | 921332 | 2 | CAPSCREW, Hex Hd., 5/16-18 x 3/4 |
| 14 | 9191022 | 1 | COLLAR, Set |
| 15 | 916950 | 2 | NUT, Hex, Full, 3/8-16 |
| 16 | 916965 | 2 | LOCKWASHER, 3/8 |
| 17 | 917378 | 2 | WASHER, Plain, 3/8 |
| 18 | 154177 | 4 | SPACER |
| 19 | 921210 | 2 | CAPSCREW, Hex Hd., 3/8-16 x 1 |
| 20 | 156141 | 1 | STOP, Pulley (990778 & 990779 Only) |
| | 162119 | 1 | STOP, Pulley |
| 21 | 930651 | 1 | LOCKNUT, Hex, 3/8-16 |
| 22 | 917421 | 1 | LOCKNUT, Hex, Jam, 3/8-16 |
| 23 | 152115 | 1 | STOP, Belt |
| 24 | 101096 | 2 | PULLEY, Idler |
| 25 | 922048 | 1 | CAPSCREW, Hex Hd., 3/8-16 x 4-1/2 |
| 26 | 174638 | 1 | CLEVIS ASSY. (990778 & 990779 Only) |
| | 162030 | 1 | CLEVIS ASSY. |
| 27 | 174803 | 1 | GUIDE ASSY., Rod (990778 & 990779 Only) |
| | 162034 | 1 | GUIDE ASSY., Rod |
| 28 | 162033 | 1 | ROD, Clutch, P.T.O. |



NOTE: Use standard hardware torque spec. chart unless otherwise noted

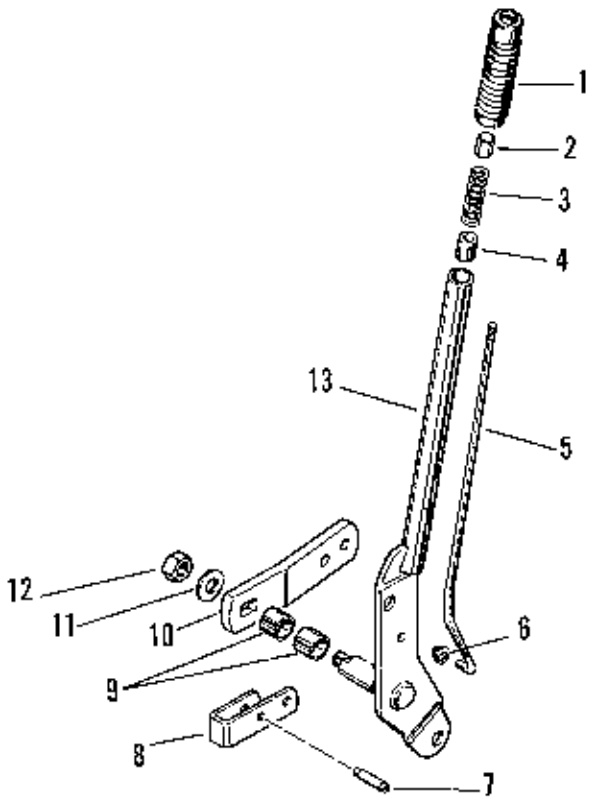


| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|
| 1 | 162093 | 1 | DECAL, P.T.O. |
| 2 | 922000 | 1 | PIN, Cotter, 3/32 x 5/8 |
| 3 | 917372 | 3 | NUT, Hex, Full, 5/16-18 |
| 4 | 917642 | 8 | WASHER, Plain, 5/16 |
| 5 | 159112 | 1 | KNOB |
| 6 | 162050 | 1 | HANDLE ASSY., P.T.O. |
| 7 | 924433 | 1 | LOCKNUT, Esna, 5/16-18 |
| 8 | 159134 | 2 | WASHER, Nylon |
| 9 | 162063 | 1 | STUD |
| 10 | 917356 | 3 | LOCKWASHER, 5/16 |
| 11 | 928804 | 1 | SETSCREW, 1/4-20 x 3/8 |
| 12 | 162065 | 1 | SPRING |
| 13 | 162088 | 1 | STOP, Belt, L.H. |
| 14 | 921332 | 2 | CAPSCREW, Hex Hd., 5/16-18 x 3/4 |
| 15 | 8191022 | 1 | COLLAR, Set |
| 16 | 916950 | 3 | NUT, Hex, Full, 3/8-16 |
| 17 | 916965 | 3 | LOCKWASHER, 3/8 |
| 18 | 917378 | 2 | WASHER, Plain, 3/8 |
| 19 | 154177 | 4 | SPACER |
| 20 | 921210 | 2 | CAPSCREW, Hex Hd., 3/8-16 x 1 |
| 21 | 920260 | 1 | CAPSCREW, Hex Hd., 3/8-16 x 4-1/4 |
| 22 | 101096 | 2 | PULLEY, Idler |
| 23 | 162087 | 1 | STOP, Belt, R.H. |
| 24 | 923362 | 1 | LOCKNUT, Hex, 5/16-18 |
| 25 | 162030 | 1 | CLEVIS ASSY., Pulley |
| 26 | 162034 | 1 | GUIDE ASSY., Rod |
| 27 | 162033 | 1 | ROD, Clutch, P.T.O. |



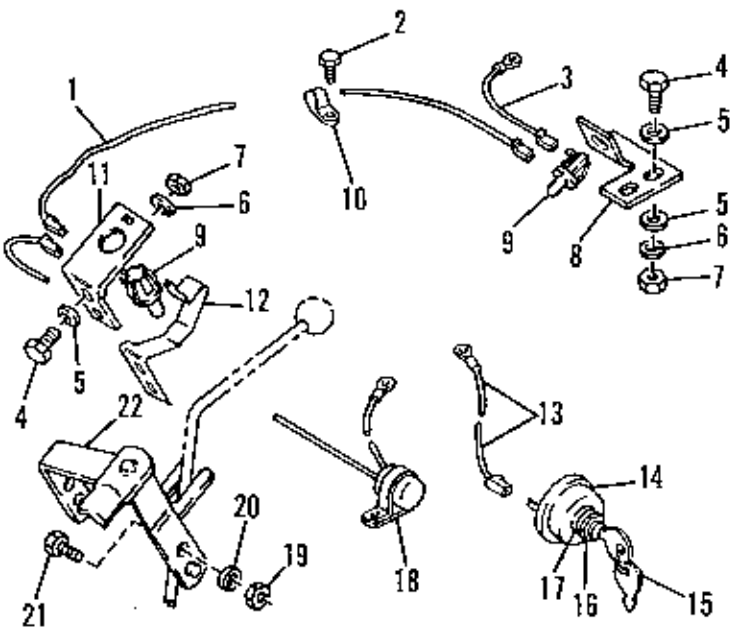

NOTE: Use standard hardware torque spec. chart unless otherwise noted

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|
| 1 | 930651 | 1 | LOCKNUT, Hex, 3/8-16 |
| 2 | 108385 | 1 | LEVER, Lift, Mower |
| 3 | 921966 | 1 | CAPSCREW, Hex Hd., 3/8-16 x 7/8 |
| 4 | 921965 | 3 | CAPSCREW, Hex Hd., 3/8-16 x 3/4 |
| 5 | 916965 | 7 | LOCKWASHER, 3/8 |
| 6 | 916950 | 7 | NUT, Hex, Full, 3/8-16 |
| 7 | 154224 | 1 | LATCH, Lift Lever |
| 8 | 170015 | 1 | PUSHNUT |
| 9 | 170094 | 1 | ROD, Lift Lever |
| | 165077 | 1 | ROD, Lift Lever (990486 & 990542 Only) |
| 10 | 162066 | 1 | LEVER ASSY., Lift |
| 11 | 916001 | 2 | PIN, Roll, 3/16 x 1 |
| 12 | 921210 | 4 | CAPSCREW, Hex Hd., 3/8-16 x 1 |
| 13 | 162070 | 1 | BAR, Bearing, L.H. |
| 14 | 162069 | 1 | BAR, Bearing, R.H. |
| 15 | 162068 | 1 | QUADRANT, Lift Lever |
| 16 | 918113 | 1 | PIN, Roll, 3/8 x 1 |
| 17 | 153058 | 1 | PIN |
| 18 | 154226 | 1 | SPACER |
| 19 | 152006 | 1 | SPRING |
| 20 | 154227 | 1 | BUTTON, Thumb |
| 21 | 156209 | 1 | GRIP, Handle |
| 22 | 8161045 | 1 | CLIP, Hair Pin (990486 & 990542 Only) |




NOTE. Use standard hardware torque spec chart unless otherwise noted

## Electric & Interlock Group




NOTE. Use standard hardware torque spec chart unless otherwise noted

3/80

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|
| 1 | 156209 | 1 | GRIP |
| 2 | 154227 | 1 | BUTTON, Thumb |
| 3 | 152006 | 1 | SPRING |
| 4 | 154226 | 1 | SPACER |
| 5 | 176452 | 1 | LEVER |
| 6 | 170015 | 1 | PUSHNUT |
| 7 | 918113 | 1 | PIN, Roll, 3/8 x 1 |
| 8 | 154224 | 1 | LATCH, Lift Lever |
| 9 | 154289 | 2 | BUSHING |
| 10 | 176464 | 1 | LINK |
| 11 | 918430 | 1 | WASHER, Plain, 7/16 |
| 12 | 924650 | 1 | LOCKNUT, Hex, 1/2-13 |
| 13 | 176204 | 1 | LEVER ASSY., Lift |

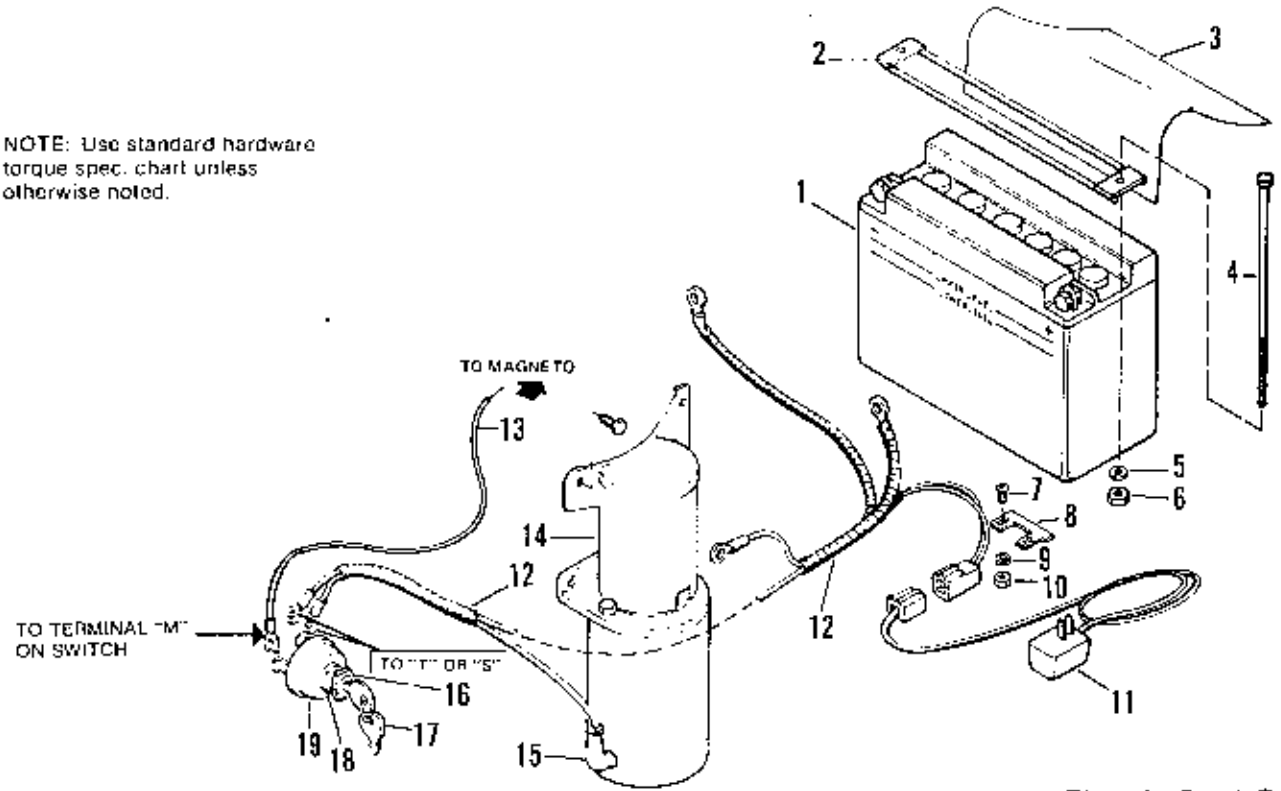
Mfg. No. 990778, 990779

Electric & Interloc Group

3/80

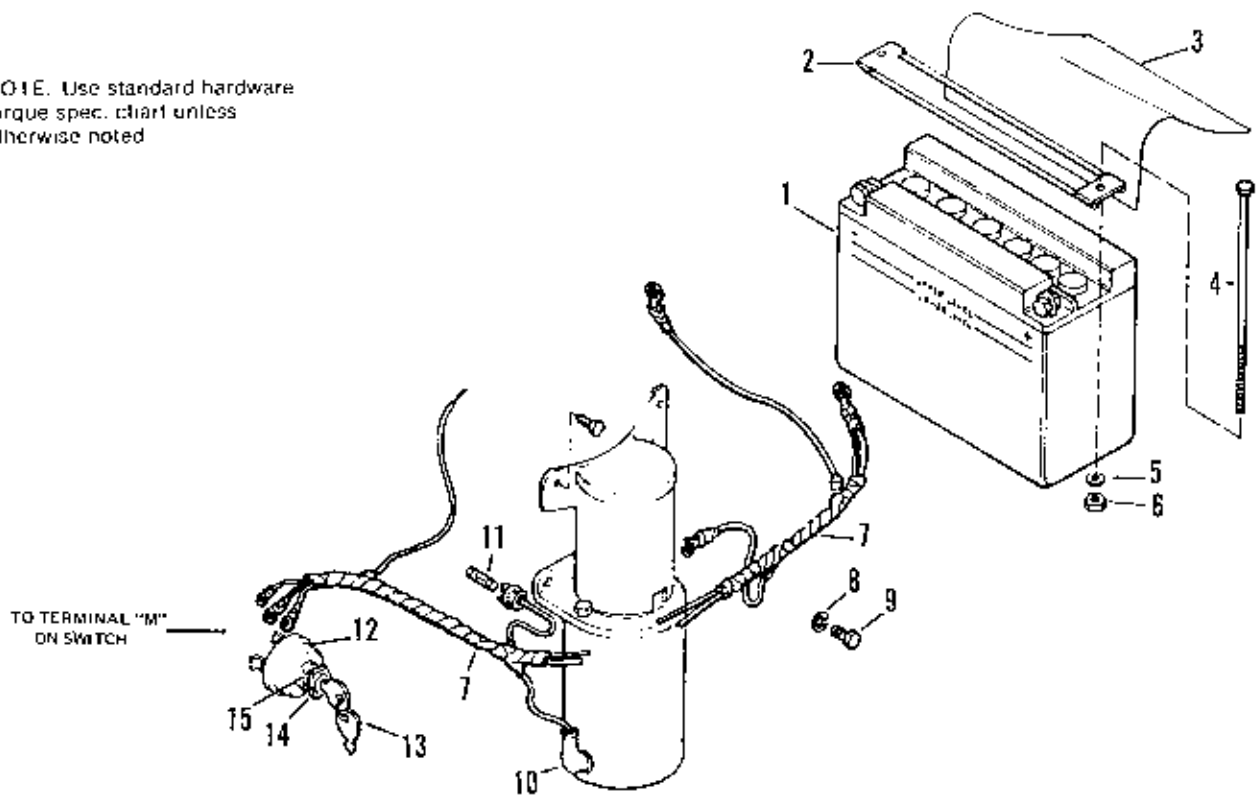
| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|
| 1 | 174650 | 1 | WIRE |
| 2 | 929000 | 1 | SCREW, Hex, Taptite, 1/4-20 x 3/8 |
| 3 | 174652 | 1 | WIRE |
| 4 | 927340 | 4 | CAPSCREW, Hex Hd., 1/4-20 x 3/4 |
| 5 | 916955 | 6 | WASHER, Plain, 3/16 |
| 6 | 916964 | 4 | LOCKWASHER, 1/4 |
| 7 | 916622 | 4 | NUT, Hex, Full, 1/4-20 |
| 8 | 174701 | 1 | BRACKET |
| 9 | 174695 | 2 | SWITCH |
| 10 | 172434 | 1 | CLIP, Cable |
| 11 | 174700 | 1 | BRACKET |
| 12 | 174619 | 1 | CLIP, Spring |
| 13 | 174651 | 1 | WIRE |
| 14 | 174518 | 1 | SWITCH, W/Keys |
| 15 | 122203 | 1 | KEYS |
| 16 | 122235 | 1 | NUT, Hex, Special |
| 17 | 928636 | 1 | LOCKWASHER, Int., 9/16 |
| 18 | 174653 | 1 | IGNITION, Interlock |
| 19 | 917372 | | NUT, Hex, Full, 5/16-18 |
| 20 | 917356 | 2 | LOCKWASHER, 5/16 |
| 21 | 921332 | 2 | CAPSCREW, Hex Hd., 5/16-18 x 3/4 |
| 22 | 170172 | 1 | PIVOT ASSY. |

NOTE: Use standard hardware torque spec. chart unless otherwise noted.




Electric Start Group

NOTE. Use standard hardware torque spec. chart unless otherwise noted



*3/80*

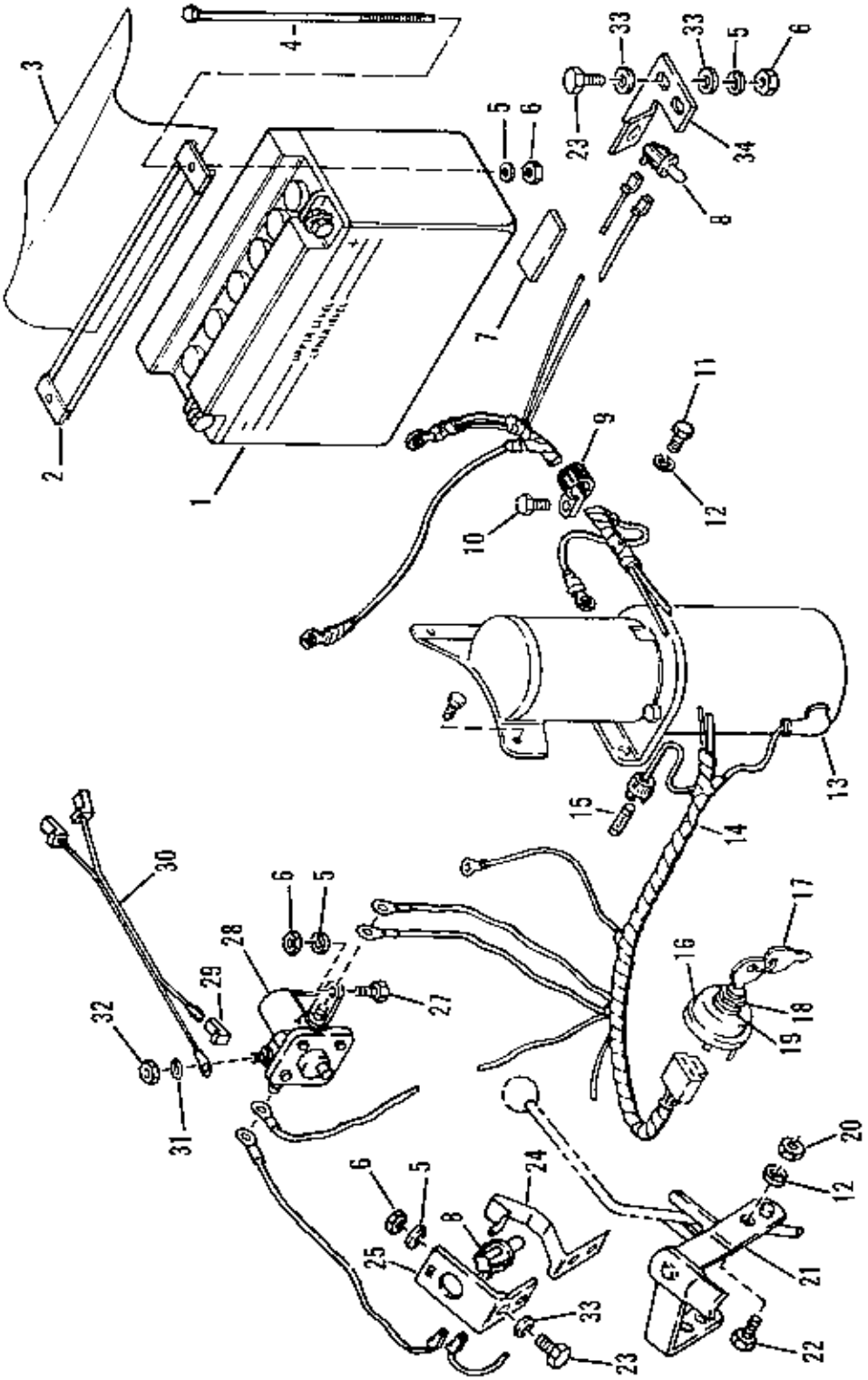
| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|
| 1 | 1657082 | 1 | BATTERY |
| 2 | 122227 | 1 | HOLD DOWN, Battery |
| 3 | 122143 | 1 | INSULATION, Battery |
| 4 | 928534 | 2 | CAPSCREW, Hex Hd., 1/4-20 x 7 |
| 5 | 916964 | 2 | LOCKWASHER, 1/4 |
| 6 | 916622 | 2 | NUT, Hex, Full, 1/4-20 |
| 7 | 170048 | 1 | HARNESS ASSY. |
| 8 | 917356 | 2 | LOCKWASHER, 5/16 |
| 9 | 925205 | 2 | CAPSCREW, Hex Hd., 5/16-18 x 5/8 |
| 10 | 122023 | 1 | COVER, Terminal |
| 11 | 172410 | 1 | FUSE |
| 12 | 122218 | 1 | SWITCH, W/Keys |
| 13 | 122203 | 1 | KEYS |
| 14 | 122234 | 1 | NUT, Hex, Special |
| 15 | 918906 | 1 | LOCKWASHER, Int , 5/8 |

*Mfg. No. 990486, 990542*

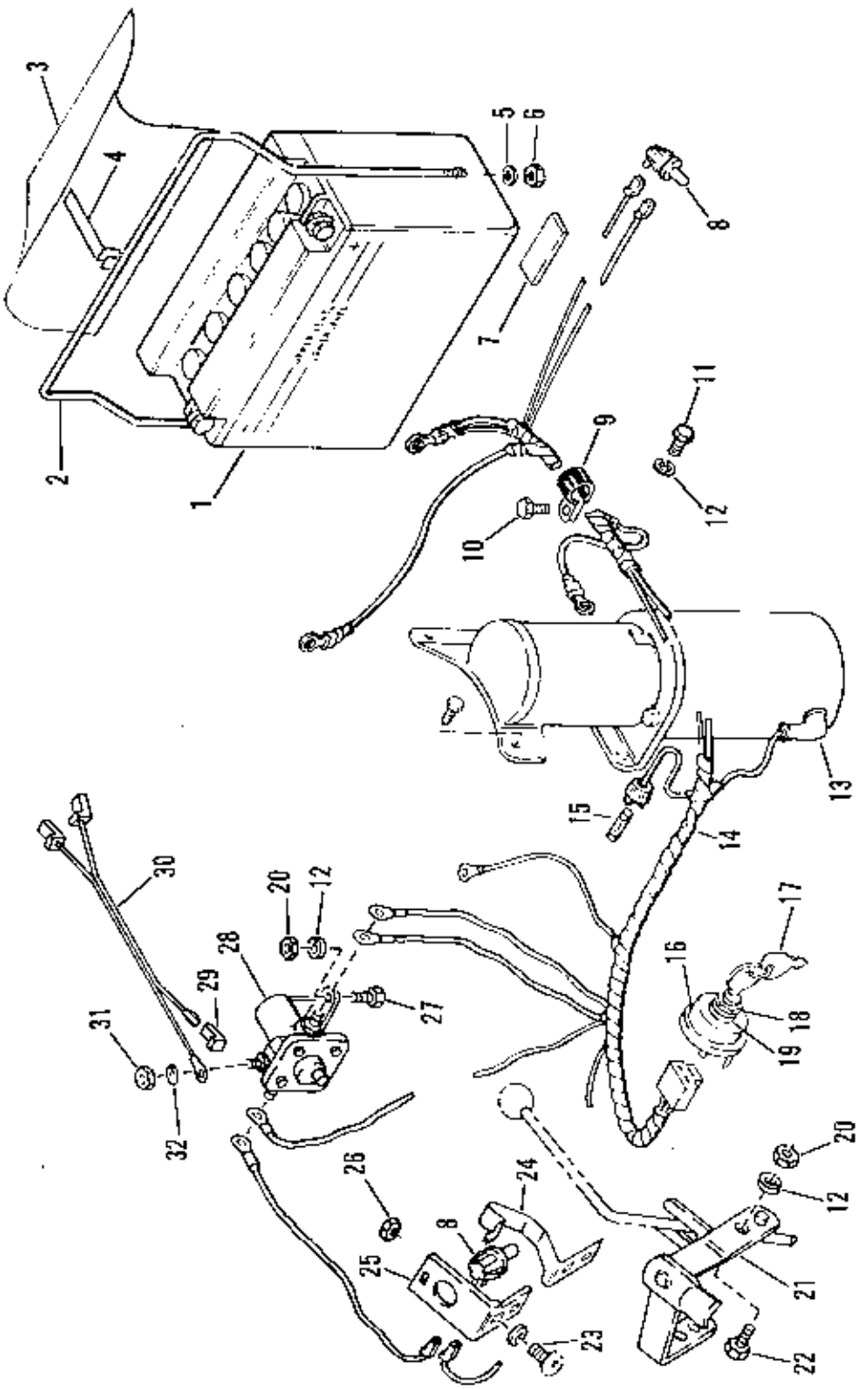
*Electric Start Group*

*3/80*

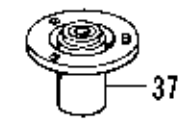
| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|
| 1 | 1657082 | 1 | BATTERY |
| 2 | 122227 | 1 | HOLD DOWN, Battery |
| 3 | 122143 | 1 | INSULATION, Battery |
| 4 | 928522 | 2 | CAPSCREW, Hex Hd., 1/4-20 x 6-1/2 |
| 5 | 916964 | 2 | LOCKWASHER, 1/4 |
| 6 | 916622 | 2 | NUT, Hex, Full, 1/4-20 |
| 7 | 917452 | 2 | SCREW, Machine, #10-32 x 1/2 |
| 8 | 122225 | 1 | CLIP, Mounting |
| 9 | 922711 | 2 | LOCKWASHER, Ext., #10 |
| 10 | 917415 | 2 | NUT, Hex, Full, #10-32 |
| 11 | 122221 | 1 | CHARGER ASSY. |
| 12 | 122219 | 1 | HARNESS ASSY. |
| 13 | 122220 | 1 | WIRE (Switch to Magneto) |
| 14 | 122230 | 1 | STARTER KIT |
| 15 | 122023 | 1 | COVER, Terminal |
| 16 | 122234 | 1 | NUT, Hex, Special |
| 17 | 122203 | 1 | KEYS |
| 18 | 918906 | 1 | LOCKWASHER, Int., 5/8 |
| 19 | 122218 | 1 | SWITCH, W/Keys |


NOTE Use standard hardware
torque spec. chart unless
otherwise noted

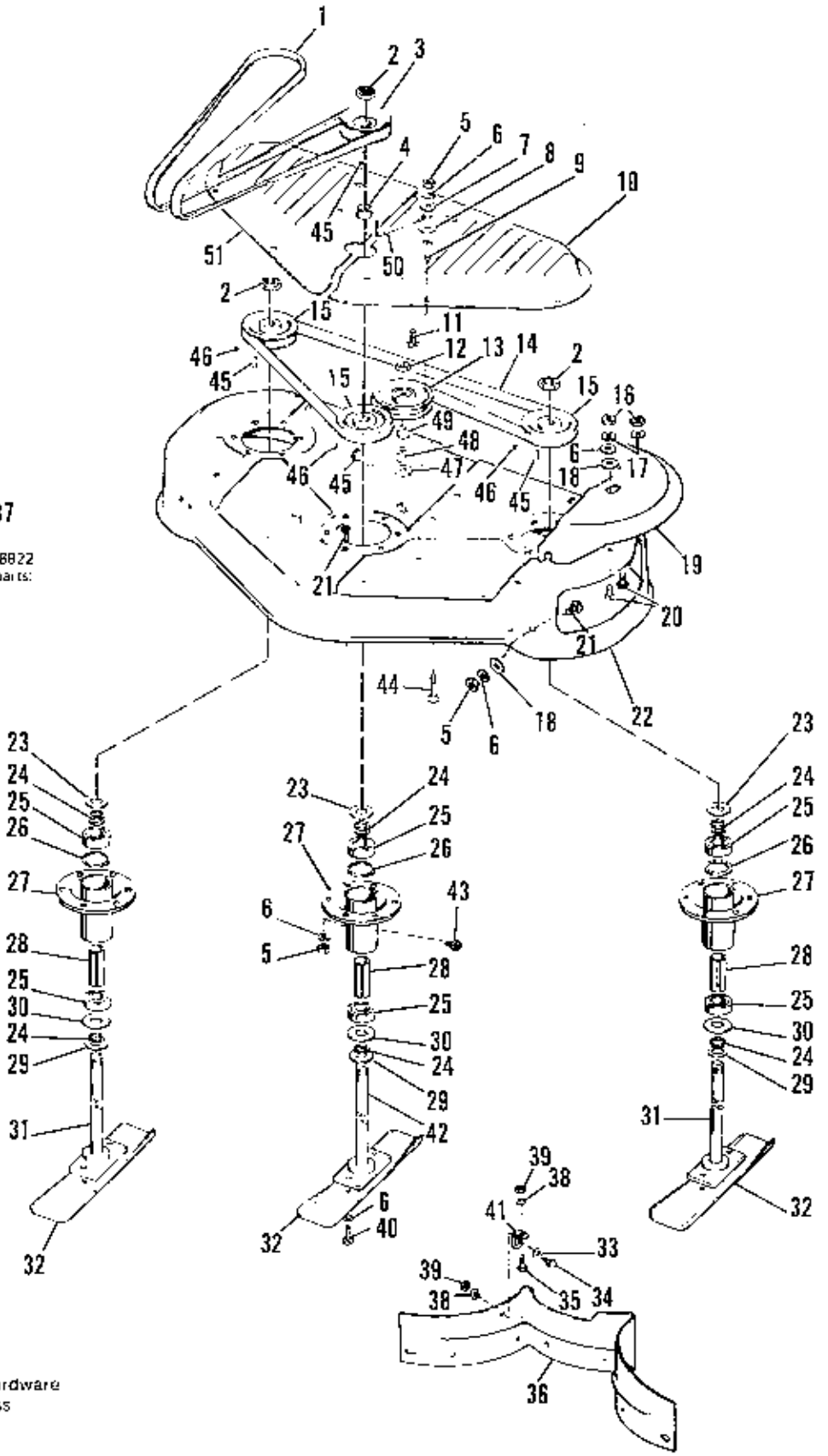
| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|
| 1 | 1657082 | 1 | BATTERY |
| 2 | 122227 | 1 | HOLD DOWN, Battery |
| 3 | 122143 | 1 | INSULATION, Battery |
| 4 | 928634 | 2 | CAPSCREW, Hex Hd., 1/4-20 x 7 |
| 5 | 916964 | 4 | LOCKWASHER, 1/4 |
| 6 | 916622 | 4 | NUT, Hex, Full, 1/4-20 |
| 7 | 106582 | 3 | GASKET, Felt |
| 8 | 174695 | 2 | SWITCH |
| 9 | 122195 | 1 | CLAMP |
| 10 | 929477 | 1 | SCREW, Hex, Taptite, #10-24 x 1/2 |
| 11 | 925205 | 2 | CAPSCREW, Hex Hd., 5/16-18 x 5/8 |
| 12 | 917356 | 5 | LOCKWASHER, 5/16 |
| 13 | 122023 | 1 | COVER, Terminal |
| 14 | 174682 | 1 | HARNESS ASSY. |
| 15 | 172410 | 1 | FUSE |
| 16 | 122201 | 1 | SWITCH, Starter W/Keys |
| 17 | 122203 | 1 | KEYS |
| 18 | 122235 | 1 | NUT, Hex, Special |
| 19 | 928636 | 1 | LOCKWASHER, Int., 9/16 |
| 20 | 917372 | 4 | NUT, Hex, Full, 5/16-18 |
| 21 | 170172 | 1 | PIVOT ASSY. |
| 22 | 921332 | 2 | CAPSCREW, Hex Hd., 5/16-18 x 3/4 |
| 23 | 927340 | 4 | CAPSCREW, Hex Hd., 1/4-20 x 3/4 |
| 24 | 174619 | 1 | CLIP, Spring |
| 25 | 174700 | 1 | BRACKET |
| 26 | 930641 | 2 | LOCKNUT, Flange, Hex, 1/4-20 |
| 27 | 929000 | 2 | SCREW, Hex, Taptite, 1/4-20 x 3/8 |
| 28 | 122216 | 1 | SOLENOID |
| 29 | 172100 | 1 | CONNECTOR, Insulated |
| 30 | 174689 | 1 | WIRE |
| 31 | 922711 | 1 | LOCKWASHER, Ext., #10 |
| 32 | 917415 | 1 | NUT, Hex, Full, #10-32 |
| 33 | 916955 | 6 | WASHER, Plain, 3/16 |
| 34 | 174701 | 1 | BRACKET |


NOTE: Use standard hardware
torque spec chart unless
otherwise noted

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|
| 1 | 1657082 | 1 | BATTERY |
| 2 | 176664 | 1 | CLAMP, Rod |
| 3 | 122143 | 1 | INSULATION, Battery |
| 4 | 175668 | 1 | CLIP |
| 5 | 916954 | 2 | LOCKWASHER, 1/4 |
| 6 | 916622 | 2 | NUT, Hex, Full, 1/4-20 |
| 7 | 106582 | 3 | GASKET, Felt |
| 8 | 174695 | 2 | SWITCH |
| 9 | 122195 | 1 | CLAMP |
| 10 | 929477 | 1 | SCREW, Hex, Taptite, #10-24 x 1/2 |
| 11 | 925205 | 2 | CAPSCREW, Hex Hd., 5/16-18 x 5/8 |
| 12 | 917356 | 5 | LOCKWASHER, 5/16 |
| 13 | 122023 | 1 | COVER, Terminal |
| 14 | 174682 | 1 | HARNESS ASSY |
| 15 | 172410 | 1 | FUSE |
| 16 | 122201 | 1 | SWITCH, Starter W/Keys |
| 17 | 122203 | 1 | KEYS |
| 18 | 122235 | 1 | NUT, Hex, Special |
| 19 | 928636 | 1 | LOCKWASHER, Int., 9/16 |
| 20 | 917372 | 4 | NUT, Hex, Full, 5/16-18 |
| 21 | 170172 | 1 | PIVOT ASSY. |
| 22 | 921332 | 2 | CAPSCREW, Hex Hd., 5/16-18 x 3/4 |
| 23 | 930517 | 2 | BOLT, Carriage, 1/4-20 x 3/4 |
| 24 | 174619 | 1 | CLIP, Spring |
| 25 | 174700 | 1 | BRACKET |
| 26 | 930641 | 2 | LOCKNUT, Flange, Hex, 1/4-20 |
| 27 | 929000 | 2 | SCREW, Hex, Taptite, 1/4-20 x 3/8 |
| 28 | 122216 | 1 | SOLENOID |
| 29 | 172100 | 1 | CONNECTOR, Insulated |
| 30 | 174689 | 1 | WIRE |
| 31 | 922711 | 1 | LOCKWASHER, Ext., #10 |
| 32 | 917415 | 1 | NUT, Hex, Full, #10-32 |

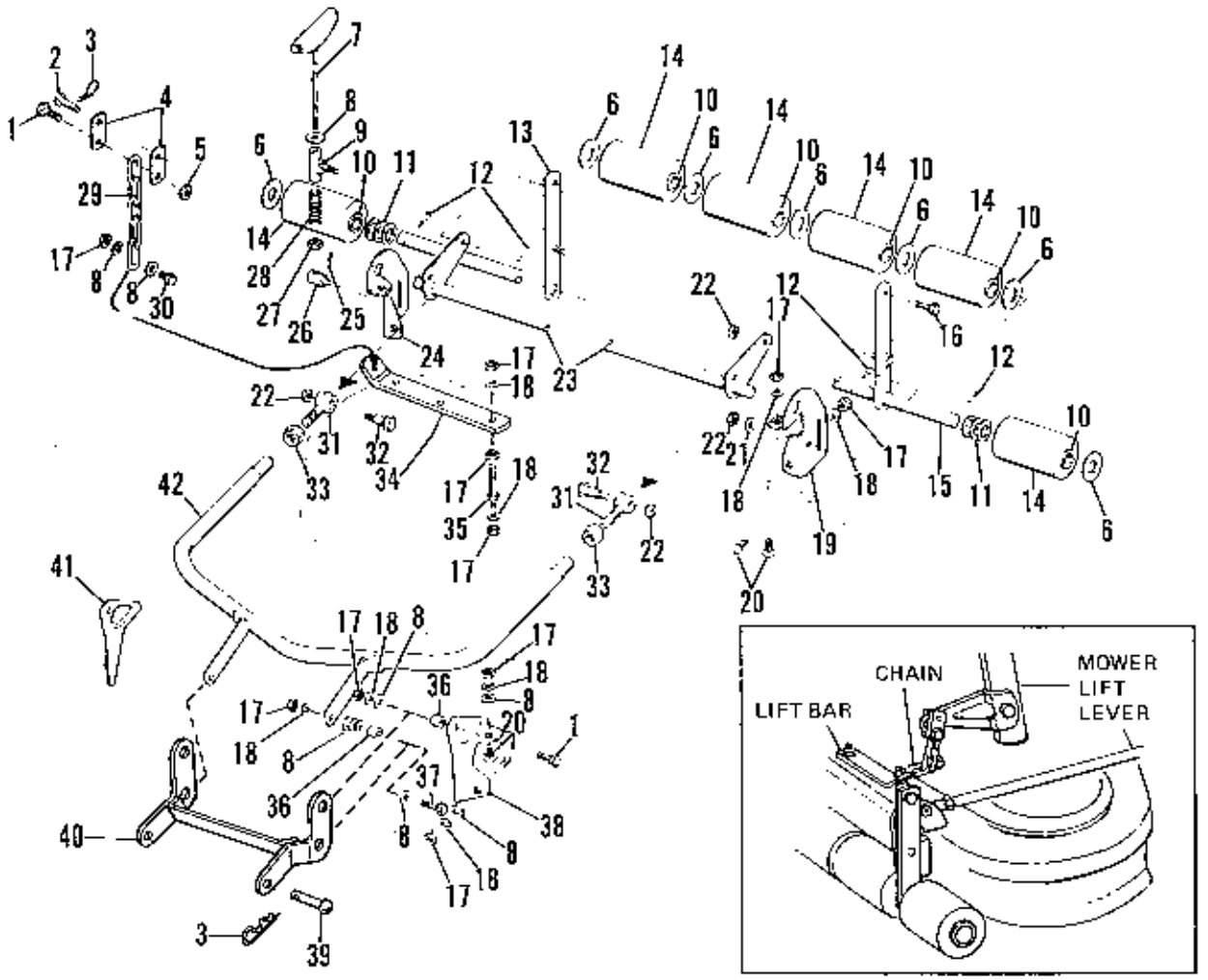



Arbor Assy. No. 108822
includes following parts:




NOTE: Use standard hardware torque spec. chart unless otherwise noted

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|
| 1 | 1651201 | 1 | V-BELT |
| | 174687 | 1 | V-BELT (990883 Only) |
| 2 | 922133 | 3 | LOCKNUT, Hex, Jam, 3/4-16 |
| 3 | 108246 | 1 | PULLEY, Cross Drive |
| 4 | 108371 | 1 | SPACER |
| 5 | 916950 | 12 | NUT, Hex, Full, 3/8-16 |
| 6 | 916965 | 18 | LOCKWASHER, 3/8 |
| 7 | 917378 | 2 | WASHER, Plain, 3/8 |
| 8 | 918430 | 2 | WASHER, Plain, 7/16 |
| 9 | 922123 | 4 | SCREW, Self Tapping, Hex Hd., 1/4-20 x 3/8 |
| 10 | 108302 | 1 | COVER, Half, L.H. |
| 11 | 922249 | 2 | BOLT, Carriage, 3/8-16 x 1 |
| 12 | 930651 | 1 | LOCKNUT, Hex, 3/8-16 |
| 13 | 108386 | 1 | PULLEY, Idler |
| 14 | 108151 | 1 | V-BELT |
| 15 | 177005 | 3 | PULLEY |
| | 108142 | 3 | PULLEY (990883 Only) |
| 16 | 917372 | 2 | NUT, Hex, Full, 5/16-18 |
| 17 | 917356 | 2 | LOCKWASHER, 5/16 |
| 18 | 8161199 | 2 | WASHER, Special |
| 19 | 108499 | 1 | DEFLECTOR |
| 20 | 920562 | 2 | BOLT, Carriage, 5/16-18 x 3/4 |
| 21 | 922110 | 10 | BOLT, Carriage, 3/8-16 x 3/4 |
| 22 | 103295 | 1 | HOUSING KIT, 32" |
| 23 | 108139 | 3 | FLINGER |
| 24 | 108181 | 9 | WASHER |
| 25 | 108202 | 6 | BEARING, Ball |
| 26 | 108134 | 3 | RING, Backing |
| 27 | 108679 | 1 | TUBE ASSY., Arbor |
| 28 | 108201 | 3 | SPACER |
| 29 | 108472 | 3 | WASHER |
| 30 | 108257 | 3 | WASHER |
| 31 | 108250 | 2 | ARBOR ASSY. |
| 32 | 108297 | 3 | BLADE |
| 33 | 917377 | 2 | WASHER, Plain, 1/4 |
| 34 | 921959 | 2 | CAPSCREW, Hex Hd., 1/4-20 x 5/8 |
| 35 | 922125 | 2 | SCREW, Self Tapping, Hex Hd., 1/4-20 x 7/8 |
| 36 | 108187 | 1 | BAFFLE, Mower |
| 37 | 108822 | 1 | ARBOR ASSY., W/Bearings |
| 38 | 916964 | 4 | LOCKWASHER, 1/4 |
| 39 | 916622 | 4 | NUT, Hex, Full, 1/4-20 |
| 40 | 922586 | 6 | CAPSCREW, Hex Hd., 3/8-16 x 5/8 |
| 41 | 108186 | 2 | CLIP, Baffle |
| 42 | 108369 | 1 | ARBOR ASSY., Drive |
| 43 | 913958 | 3 | FITTING, Grease |
| 44 | 923420 | 1 | BOLT, Carriage, 3/8-16 x 1-3/4 |
| 45 | 918312 | 4 | KEY, Woodruff, #61 |
| 46 | 930544 | 3 | SETSCREW, 5/16-18 x 3/8 |
| 47 | 918431 | 1 | WASHER, Plain, 1/2 |
| 48 | 917642 | 2 | WASHER, Plain, 5/16 |
| 49 | 157081 | 1 | SPACER |
| 50 | 8161158 | 2 | STOP, Belt |
| 51 | 108301 | 1 | COVER, R.H. |




NOTE Use standard hardware torque spec chart unless otherwise noted

| Ref. No. | Part No. | Qty. | Description |
|---|---|---|---|
| 1 | 921210 | 3 | CAPSCREW, Hex Hd., 3/8-16 x 1 |
| 2 | 153058 | 1 | PIN |
| 3 | 8161045 | 3 | CLIP, Hair Pin |
| 4 | 108199 | 2 | LINK, Mower Lift |
| 5 | 930651 | 1 | LOCKNUT, Hex, 3/8-16 |
| 6 | 116001 | 7 | WASHER |
| 7 | 108415 | 1 | SCREW ASSY., Adjusting |
| 8 | 917378 | 19 | WASHER, Plain, 3/8 |
| 9 | 108165 | 1 | SOCKET ASSY., Crank |
| 10 | 108419 | 12 | BUSHINGS |
| 11 | 8261055 | 10 | WASHER |
| 12 | 918458 | 4 | PIN, Cotter, 3/16 x 1 |
| 13 | 108256 | 1 | BAR ASSY., Roller |
| 14 | 108431 | 6 | ROLLER ASSY., W/Bushings |
| 15 | 108254 | 1 | ROLLER BAR & SHAFT ASSY. |
| 16 | 921966 | 1 | CAPSCREW, Hex Hd., 3/8-16 x 7/8 |
| 17 | 916950 | 22 | NUT, Hex, Full, 3/8-16 |
| 18 | 916965 | 22 | LOCKWASHER, 3/8 |
| 19 | 108163 | 1 | BRACKET, Roller, L.H. |
| 20 | 922110 | 8 | BOLT, Carriage, 3/8-16 x 3/4 |
| 21 | 917642 | 2 | WASHER, Plain, 5/16 |
| 22 | 930651 | 4 | LOCKNUT, Hex, 3/8-16 |
| 23 | 108160 | 1 | LEVER ASSY., Rear |
| 24 | 108159 | 1 | BRACKET, Roller, R.H. |
| 25 | 918447 | 1 | PIN, Cotter, 3/32 x 3/4 |
| 26 | 108172 | 1 | PIVOT |
| 27 | 917421 | 1 | LOCKNUT, Hex, Jam, 3/8-16 |
| 28 | 108360 | 1 | SPRING |
| 29 | 107031 | 1 | CHAIN |
| 30 | 921955 | 1 | CAPSCREW, Hex Hd., 3/8-16 x 3/4 |
| 31 | 157215 | 2 | EYEBOLT |
| 32 | 108412 | 2 | BOLT, Shoulder |
| 33 | 919262 | 2 | LOCKNUT, Hex, Jam, 1/2-20 |
| 34 | 108375 | 1 | BAR, Lift |
| 35 | 108372 | 1 | STUD |
| 36 | 153073 | 4 | SPACER |
| 37 | 920415 | 2 | CAPSCREW, Hex Hd., 3/8-16 x 1-1/4 |
| 38 | 108476 | 1 | BRACKET, Front, L.H. |
| 39 | 156305 | 2 | PIN |
| 40 | 108796 | 1 | ARM ASSY., Rocker |
| 41 | 108477 | 1 | BRACKET, Front, R.H. |
| 42 | 108478 | 1 | BAIL ASSY. |

# TORQUE SPECIFICATIONS FOR STANDARD MACHINE HARDWARE

## TOLERANCE ± 20%

| SIZE | SAE GRADE #2 | | SAE GRADE #5 | | SAE GRADE #8 | |
|---|---|---|---|---|---|---|
| 8-32 | 19 | In. Lbs. | 30 | In. Lbs. | 41 | In. Lbs. |
| 8-36 | 20 | " | 31 | " | 43 | " |
| 10-24 | 27 | " | 43 | " | 60 | " |
| 10-32 | 31 | " | 49 | " | 68 | " |
| 1/4-20 | 66 | " | 8 | Ft. Lbs | 12 | Ft. Lbs. |
| 1/4-28 | 76 | " | 10 | " | 14 | " |
| 5/16-18 | 11 | Ft. Lbs | 17 | " | 25 | " |
| 5/16-24 | 12 | " | 19 | " | 25 | " |
| 3/8-16 | 20 | " | 30 | " | 45 | " |
| 3/8-24 | 23 | " | 35 | " | 50 | " |
| 7/16-14 | 30 | " | 50 | " | 70 | " |
| 7/16-20 | 35 | " | 55 | " | 80 | " |
| 1/2-13 | 50 | " | 75 | " | 110 | " |
| 1/2-20 | 55 | " | 90 | " | 120 | " |
| 9/16-12 | 65 | " | 110 | " | 150 | " |
| 9/16-18 | 75 | " | 120 | " | 170 | " |
| 5/8-11 | 90 | " | 150 | " | 220 | " |
| 5/8-18 | 100 | " | 180 | " | 240 | " |
| 3/4-10 | 160 | " | 260 | " | 386 | " |
| 3/4-16 | 180 | " | 300 | " | 420 | " |
| 7/8-9 | 140 | " | 400 | " | 600 | " |
| 7/8-14 | 155 | " | 440 | " | 660 | " |
| 1-8 | 220 | " | 580 | " | 900 | " |
| 1-12 | 240 | " | 640 | " | 1,000 | " |

**NOTE:**

1. These torque values are to be used for all *Simplicity* hardware excluding: locknuts, self-tapping screws, thread forming screws, sheet metal screws and socket head setscrews.
2. Recommended seating torque values for locknuts:
   a. For prevailing torque locknuts - use 65% of grade 5 torques.
   b. For flange whizlock nuts (and screws) - use 135% of grade 5 torques.
3. Unless otherwise noted on assembly drawings all torque values must meet this specification.

**BOLT HEAD MARKING**

**S.A.E. GRADE:**

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